

<400> 323

```

Met His Leu Thr Leu Ser Leu Leu Leu Phe Ser Leu His Phe Pro Thr
 1           5           10           15
Tyr Ile Ile Arg Val Asn Phe Cys Leu Val Ser Asn Leu Phe Gln Arg
      20           25           30
Met Arg Ser Thr Lys Leu Leu Arg Leu Ile Asp Leu Asp Phe Ser Phe
      35           40           45
Thr Phe Ser Leu Leu Asp Leu Pro Pro Val Asn Glu Tyr Asp Met Tyr
      50           55           60
Ile Arg Asn Phe Gly Lys Lys Lys Arg Gly Gly Arg Phe Lys Gly
65           70           75           80
Ser Arg Phe Thr Asn Ala Gly Trp Gln Arg Lys Ser Phe Phe Met Gly
      85           90           95
Pro Pro Lys Ser Ile Pro Gly Ala Gly Val *
      100           105 106

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<210> 324

<211> 408

<212> PRT

<213> Homo sapiens

<400> 324

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Met Thr Val Arg Gly Asp Val Leu Ala Pro Asp Pro Ala Ser Pro Thr
 1           5           10           15
Thr Ala Ala Ala Ser Pro Ser Val Ser Val Ile Pro Glu Gly Ser Pro
      20           25           30
Thr Ala Met Glu Gln Pro Val Phe Leu Met Thr Thr Ala Ala Gln Ala
      35           40           45
Ile Ser Gly Phe Phe Val Trp Thr Ala Leu Leu Ile Thr Cys His Gln
      50           55           60
Ile Tyr Met His Leu Arg Cys Tyr Ser Cys Pro Asn Glu Gln Arg Tyr
65           70           75           80
Ile Val Arg Ile Leu Phe Ile Val Pro Ile Tyr Ala Phe Asp Ser Trp
      85           90           95
Leu Ser Leu Leu Phe Phe Thr Asn Asp Gln Tyr Tyr Val Tyr Phe Gly
      100           105           110
Thr Val Arg Asp Cys Tyr Glu Ala Leu Val Ile Tyr Asn Phe Leu Ser
      115           120           125
Leu Cys Tyr Glu Tyr Leu Gly Gly Glu Ser Ser Ile Met Ser Glu Ile
      130           135           140
Arg Gly Lys Pro Ile Glu Ser Ser Cys Met Tyr Gly Thr Cys Cys Leu
145           150           155           160
Trp Gly Lys Thr Tyr Ser Ile Gly Phe Leu Arg Phe Cys Lys Gln Ala
      165           170           175
Thr Leu Gln Phe Cys Val Val Lys Pro Leu Met Ala Val Ser Thr Val
      180           185           190
Val Leu Gln Ala Phe Gly Lys Tyr Arg Asp Gly Asp Phe Asp Val Thr
      195           200           205
Ser Gly Tyr Leu Tyr Val Thr Ile Ile Tyr Asn Ile Ser Val Ser Leu
      210           215           220
Ala Leu Tyr Ala Leu Phe Leu Phe Tyr Phe Ala Thr Arg Glu Leu Leu
225           230           235           240
Ser Pro Tyr Ser Pro Val Leu Lys Phe Phe Met Val Lys Ser Val Ile
      245           250           255
Phe Leu Ser Phe Trp Gln Gly Met Leu Leu Ala Ile Leu Glu Lys Cys
      260           265           270
Gly Ala Ile Pro Lys Ile His Ser Ala Arg Val Ser Val Gly Glu Gly
      275           280           285
Thr Val Ala Ala Gly Tyr Gln Asp Phe Ile Ile Cys Val Glu Met Phe
      290           295           300

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Phe Ala Ala Leu Ala Leu Arg His Ala Phe Thr Tyr Lys Val Tyr Ala
 305 310 315 320
 Asp Lys Arg Leu Asp Ala Gln Gly Arg Cys Ala Pro Met Lys Ser Ile
 325 330 335
 Ser Ser Ser Leu Lys Glu Thr Met Asn Pro His Asp Ile Val Gln Asp
 340 345 350
 Ala Ile His Asn Phe Ser Pro Ala Tyr Gln Gln Tyr Thr Gln Gln Ser
 355 360 365
 Thr Leu Glu Pro Gly Pro Thr Trp Arg Gly Gly Ala His Gly Leu Ser
 370 375 380
 Arg Ser His Ser Leu Ser Gly Ala Arg Asp Asn Glu Lys Thr Leu Leu
 385 390 395 400
 Leu Ser Ser Asp Asp Glu Phe *
 405 407

<210> 325
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 325
 Met Gly Lys Lys Val Thr Leu Leu Leu Gln Lys Cys Ala Trp Leu Leu
 1 5 10 15
 Leu Val Cys Cys Leu Phe Thr Gly Ile Lys Tyr Leu Asn Lys Cys Phe
 20 25 30
 Ile Thr Asp Arg Glu Leu Leu Arg Asp Val His Asn Ala Leu Asn Ile
 35 40 45
 Leu Arg His Asn Phe Tyr Val Asn Trp Ala Ser Leu Asn Thr Phe *
 50 55 60 63

<210> 326
 <211> 97
 <212> PRT
 <213> Homo sapiens

<400> 326
 Met Pro Ser Val Val Leu Asn Met Val Gln Leu Phe Ile Pro Ile Leu
 1 5 10 15
 Lys Phe Gln Leu Gly Tyr Ser Val Leu Ser Leu Cys Asn His Val Leu
 20 25 30
 Glu Phe Leu Phe Pro Ser Ser Leu Ser Gly Ile Phe Ser Ser Ser Leu
 35 40 45
 Pro Leu Leu Leu Pro Phe Pro Leu Ser Leu Pro Ser Leu Pro Pro Ser
 50 55 60
 Leu Phe Pro Ser Leu Arg Val Leu Leu Cys His Pro His Trp Ser Val
 65 70 75 80
 Ala Ser Asn Ser Trp Ala Val Ala Ile Leu Leu Pro Gln Pro Pro Glu
 85 90 95 96
 *

<210> 327
 <211> 103
 <212> PRT
 <213> Homo sapiens

<400> 327

```

Met Met Leu Gly His Met Tyr His Met Ser Val Ile Gln Lys Cys Lys
 1           5           10           15
Pro Leu Asp Thr Asp Ser Thr Ser Gly Asp Ile Phe Ser Gly Ser Tyr
           20           25           30
Gly Trp Cys Ser Pro Thr Ala Leu Tyr Glu Gln Ser Cys Glu Ala His
           35           40           45
Lys His Arg Gly Asn Pro Ser Gly Leu Tyr Tyr Ile Asp Ala Asp Gly
           50           55           60
Ser Gly Pro Leu Gly Pro Phe Leu Val Tyr Cys Asn Met Thr Gly Met
           65           70           75           80
Leu Ile Ile Val Arg Cys Ile Asp Gln Asn Arg Pro Arg Arg Asn Leu
           85           90           95
Pro Ser Trp Gln His Tyr *
           100          102

```

<210> 328

<211> 62

<212> PRT

<213> Homo sapiens

<400> 328

```

Met Lys Lys Gly Val Gly Cys Thr Cys Val Ser Val Cys Pro Cys Met
 1           5           10           15
Cys Val His Pro Tyr Val Cys Thr Cys Ala Cys Met His Val Cys Val
           20           25           30
Cys Leu Cys Ala Trp Cys Leu Ser Gln Pro Gly Gly Leu Gly Gly Phe
           35           40           45
Ser Glu Glu Val Thr Ser Leu Pro Arg Pro Arg Ala Leu *
           50           55           60          61

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<210> 329

<211> 119

<212> PRT

<213> Homo sapiens

<400> 329

```

Met Leu Phe Leu Lys Lys Ile Gln Phe Leu Lys Cys Asn Lys Val Phe
 1           5           10           15
Arg Ser Leu Asp Phe Cys Val Ala Leu Pro Leu Leu Phe Ser Ser Ser
           20           25           30
Ala Val Leu Gln Ile Thr Pro Val Asp Thr Phe Ser Asp Pro His Leu
           35           40           45
Val Leu Thr Leu Val Lys Leu Leu Met Asn Ile Leu Asn Ile Ala Val
           50           55           60
Ile Ser Leu Thr Phe Pro Gly Glu Tyr Glu Val Ser Leu Ala Phe Glu
           65           70           75           80
Asn Ile Leu Met Tyr Thr His Ala Phe Ile Ile Cys Phe Cys Asn Arg
           85           90           95
Gln Trp Leu Phe Lys Ser Asn Ser Glu Ser Asn Leu Ser Ser Asn Val
           100          105          110
Asn Leu Phe Asp Ser Cys *
           115          118

```

<210> 330

<211> 111
 <212> PRT
 <213> Homo sapiens

<400> 330
 Met Gln Leu His Gly Lys Gly Ser Gln Asp Pro Ser Thr Lys Gly His
 1 5 10 15
 Ile Lys Ala Leu Gln Thr Val Thr Ser Phe Leu Leu Leu Cys Ala Ile
 20 25 30
 Tyr Phe Leu Ser Met Ile Ile Ser Val Cys Asn Phe Gly Arg Leu Glu
 35 40 45
 Lys Gln Pro Val Phe Met Phe Cys Gln Ala Ile Ile Phe Ser Tyr Pro
 50 55 60
 Ser Thr His Pro Phe Ile Leu Ile Leu Gly Asn Lys Lys Leu Lys Gln
 65 70 75 80
 Ile Phe Leu Ser Val Leu Arg His Val Arg Tyr Trp Val Lys Asp Arg
 85 90 95
 Ser Leu Arg Leu His Arg Phe Thr Arg Gly Ala Leu Cys Val Phe
 100 105 110 111

<210> 331
 <211> 318
 <212> PRT
 <213> Homo sapiens

<400> 331
 Met Ala Pro Trp Ala Glu Ala Glu His Ser Ala Leu Asn Pro Leu Arg
 1 5 10 15
 Ala Val Trp Leu Thr Leu Thr Ala Ala Phe Leu Leu Thr Leu Leu Leu
 20 25 30
 Gln Leu Leu Pro Pro Gly Leu Leu Pro Gly Cys Ala Ile Phe Gln Asp
 35 40 45
 Leu Ile Arg Tyr Gly Lys Thr Lys Cys Gly Glu Pro Ser Arg Pro Ala
 50 55 60
 Ala Cys Arg Ala Phe Asp Val Pro Lys Arg Tyr Phe Ser His Phe Tyr
 65 70 75 80
 Ile Ile Ser Val Leu Trp Asn Gly Phe Leu Leu Trp Cys Leu Thr Gln
 85 90 95
 Ser Leu Phe Leu Gly Ala Pro Phe Pro Ser Trp Leu His Gly Leu Leu
 100 105 110
 Arg Ile Leu Gly Ala Ala Gln Phe Gln Gly Gly Glu Leu Ala Leu Ser
 115 120 125
 Ala Phe Leu Val Leu Val Phe Leu Trp Leu His Ser Leu Arg Arg Leu
 130 135 140
 Phe Glu Cys Leu Tyr Val Ser Val Phe Ser Asn Val Met Ile His Val
 145 150 155 160
 Val Gln Tyr Cys Phe Gly Leu Val Tyr Tyr Val Leu Val Gly Leu Thr
 165 170 175
 Val Leu Ser Gln Val Pro Met Asp Gly Arg Asn Ala Tyr Ile Thr Gly
 180 185 190
 Lys Asn Leu Leu Met Gln Ala Arg Trp Phe His Ile Leu Gly Met Met
 195 200 205
 Met Phe Ile Trp Ser Ser Ala His Gln Tyr Lys Cys His Val Ile Leu
 210 215 220
 Gly Asn Leu Arg Lys Asn Lys Ala Gly Val Val Ile His Cys Asn His
 225 230 235 240
 Arg Ile Pro Phe Gly Asp Trp Phe Glu Tyr Val Ser Ser Pro Asn Tyr
 245 250 255
 Leu Ala Glu Leu Met Ile Tyr Val Ser Met Ala Val Thr Phe Gly Phe
 260 265 270

His Asn Leu Thr Trp Trp Leu Val Val Thr Asn Val Phe Phe Asn Gln
 275 280 285
 Ala Leu Ser Ala Phe Leu Ser His Gln Phe Tyr Lys Ser Lys Phe Val
 290 295 300
 Ser Tyr Pro Lys His Arg Lys Ala Phe Leu Pro Phe Leu Phe
 305 310 315 318

<210> 332
 <211> 308
 <212> PRT
 <213> Homo sapiens

<400> 332
 Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
 1 5 10 15
 Val Gln Cys Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln
 20 25 30
 Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
 35 40 45
 Ser Ser Phe Ser Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
 50 55 60
 Glu Trp Val Ser Ser Ile Ser Gly Ser Ser Gly Thr Thr Tyr Tyr Ala
 65 70 75 80
 Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn
 85 90 95
 Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val
 100 105 110
 Tyr Tyr Cys Ala Lys Pro Phe Pro Tyr Phe Asp Tyr Trp Gly Gln Gly
 115 120 125
 Thr Leu Val Thr Val Ser Ser Gly Asp Gly Ser Ser Gly Gly Ser Gly
 130 135 140
 Gly Ala Ser Thr Gly Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu
 145 150 155 160
 Ser Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln
 165 170 175
 Ser Val Ser Ser Ser Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
 180 185 190
 Ala Pro Arg Leu Leu Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile
 195 200 205
 Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
 210 215 220
 Ile Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln
 225 230 235 240
 Thr Gly Arg Ile Pro Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 245 250 255
 Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp
 260 265 270
 Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn
 275 280 285
 Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu
 290 295 300
 Pro Ile Gly *
 305 307

<210> 333
 <211> 160
 <212> PRT
 <213> Homo sapiens

<400> 333

```

Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
 1          5          10          15
Val Gln Cys Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln
          20          25          30
Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
          35          40          45
Asp Ser Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
          50          55          60
Asp Trp Val Ser Ala Val Ser Gly Gly Gly Gly Ser Thr Tyr Tyr Ala
          65          70          75          80
Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Ser
          85          90          95
Thr Met Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Met
          100          105          110
Tyr Tyr Cys Ala Lys Asp Asn Tyr Asp Phe Trp Ser Gly Thr Phe Asp
          115          120          125
Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys
          130          135          140
Gly Pro Ser Val Val Ala Gly Ala Arg Arg Leu Ala Lys Leu Cys *
145          150          155          159

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<210> 334

<211> 313

<212> PRT

<213> Homo sapiens

<400> 334

```

Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
 1          5          10          15
Val Gln Cys Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln
          20          25          30
Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Thr Gly Phe Thr Phe
          35          40          45
Ser Ser Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
          50          55          60
Glu Trp Val Ser Glu Ile Ile Ser Ser Gly Gly Thr Thr Tyr Tyr Ala
          65          70          75          80
Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn
          85          90          95
Thr Leu Tyr Leu Gln Met Asn Gly Met Arg Ala Glu Asp Thr Ala Ile
          100          105          110
Tyr Tyr Cys Ala Lys Asp Ile Ile Ser Asp Ser Trp Arg Tyr Phe Asp
          115          120          125
Tyr Trp Gly Gln Gly Ala Leu Val Thr Val Ser Ser Gly Asp Gly Ser
          130          135          140
Ser Gly Gly Ser Gly Gly Ala Ser Thr Gly Glu Ile Val Leu Thr Gln
145          150          155          160
Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser
          165          170          175
Cys Arg Ala Ser Gln Ser Val Ser Ser Ser Tyr Leu Ala Trp Tyr Gln
          180          185          190
Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr Gly Ala Ser Ser
          195          200          205
Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr
          210          215          220
Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu Pro Glu Asp Phe Ala Val
225          230          235          240
Tyr Tyr Cys Gln Gln Thr Gly Arg Ile Pro Pro Thr Phe Gly Gln Gly
          245          250          255

```

Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile
 260 265 270
 Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val
 275 280 285
 Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys
 290 295 300
 Val Asp Asn Ala Leu Pro Ile Gly *
 305 310 312

<210> 335
 <211> 364
 <212> PRT
 <213> Homo sapiens

<400> 335
 Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
 1 5 10 15
 Val Gln Cys Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln
 20 25 30
 Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
 35 40 45
 Ser Ser Phe Ser Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
 50 55 60
 Glu Trp Val Ser Ser Ile Ser Gly Ser Ser Gly Thr Thr Tyr Tyr Ala
 65 70 75 80
 Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn
 85 90 95
 Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val
 100 105 110
 Tyr Tyr Cys Ala Lys Pro Phe Pro Tyr Phe Asp Tyr Trp Gly Gln Gly
 115 120 125
 Thr Leu Val Thr Val Ser Ser Gly Asp Gly Ser Ser Gly Gly Ser Val
 130 135 140
 Thr Val Ser Ser Ser Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu
 145 150 155 160
 Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln
 165 170 175
 Ser Ile Ser Ser Trp Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala
 180 185 190
 Pro Lys Leu Leu Ile Tyr Lys Ala Ser Ser Leu Glu Ser Gly Val Pro
 195 200 205
 Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
 210 215 220
 Ser Ser Leu Gln Pro Asp Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr
 225 230 235 240
 Val Tyr Tyr Pro Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 245 250 255
 Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
 260 265 270
 Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
 275 280 285
 Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
 290 295 300
 Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
 305 310 315 320
 Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
 325 330 335
 Lys His Lys Leu Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
 340 345 350
 Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys *
 355 360 363

<210> 336
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 336
 Met Phe Pro Pro Tyr Phe Ser Leu Ile Leu Leu Leu Phe Thr Phe Ala
 1 5 10 15
 Ser Lys Phe Phe Leu Ser Leu Asn Leu Lys Lys Ser Asn Ile Val Lys
 20 25 30
 Ala Arg Ile Glu Ser Thr Lys Thr Val Ile Ser Lys Arg Cys *
 35 40 45 46

<210> 337
 <211> 79
 <212> PRT
 <213> Homo sapiens

<400> 337
 Met Ala Met Gln Ser Val Ile Arg Lys Gln Phe Thr Ala Leu Ala Gly
 1 5 10 15
 Phe Cys Phe Trp Phe Cys Leu Phe Thr Leu Ala Val Leu Ser Leu Thr
 20 25 30
 Leu Leu Ile Cys Lys Leu Arg Ile Met Pro Phe Lys Leu Glu Gly Leu
 35 40 45
 Phe Gln Glu Leu Asn Lys Ser Trp His Met Lys Leu Leu Ser Gln Asp
 50 55 60
 Arg Glu Leu Ile Asn Met Leu Leu Leu Leu Met Gly Arg Ser *
 65 70 75 78

<210> 338
 <211> 1189
 <212> PRT
 <213> Homo sapiens

<400> 338
 Met Asp Leu Pro Arg Gly Leu Val Val Ala Trp Ala Leu Ser Leu Trp
 1 5 10 15
 Pro Gly Phe Thr Asp Thr Phe Asn Met Asp Thr Arg Lys Pro Arg Val
 20 25 30
 Ile Pro Gly Ser Arg Thr Ala Phe Phe Gly Tyr Thr Val Gln Gln His
 35 40 45
 Asp Ile Ser Gly Asn Lys Trp Leu Val Val Gly Ala Pro Leu Glu Thr
 50 55 60
 Asn Gly Tyr Gln Lys Thr Gly Asp Val Tyr Lys Cys Pro Val Ile His
 65 70 75 80
 Gly Asn Cys Thr Lys Leu Asn Leu Gly Arg Val Thr Leu Ser Asn Val
 85 90 95
 Ser Glu Arg Lys Asp Asn Met Arg Leu Gly Leu Ser Leu Ala Thr Asn
 100 105 110
 Pro Lys Asp Asn Ser Phe Leu Ala Cys Ser Pro Leu Trp Ser His Glu
 115 120 125
 Cys Gly Ser Ser Tyr Tyr Thr Thr Gly Met Cys Ser Arg Val Asn Ser
 130 135 140

Asn Phe Arg Phe Ser Lys Thr Val Ala Pro Ala Leu Gln Arg Cys Gln
 145 150 155 160
 Thr Tyr Met Asp Ile Val Ile Val Leu Asp Gly Ser Asn Ser Ile Tyr
 165 170 175
 Pro Trp Val Glu Val Gln His Phe Leu Ile Asn Ile Leu Lys Lys Phe
 180 185 190
 Tyr Ile Gly Pro Gly Gln Ile Gln Val Gly Val Val Gln Tyr Gly Glu
 195 200 205
 Asp Val Val His Glu Phe His Leu Asn Asp Tyr Arg Ser Val Lys Asp
 210 215 220
 Val Val Glu Ala Ala Ser His Ile Glu Gln Arg Gly Gly Thr Glu Thr
 225 230 235 240
 Arg Thr Ala Phe Gly Ile Glu Phe Ala Arg Ser Glu Ala Phe Gln Lys
 245 250 255
 Gly Gly Arg Lys Gly Ala Lys Lys Val Met Ile Val Ile Thr Asp Gly
 260 265 270
 Glu Ser His Asp Ser Pro Asp Leu Glu Lys Val Ile Gln Gln Ser Glu
 275 280 285
 Arg Asp Asn Val Thr Arg Tyr Ala Val Ala Val Leu Gly Tyr Tyr Asn
 290 295 300
 Arg Arg Gly Ile Asn Pro Glu Thr Phe Leu Asn Glu Ile Lys Tyr Ile
 305 310 315 320
 Ala Ser Asp Pro Asp Asp Lys His Phe Phe Asn Val Thr Asp Glu Ala
 325 330 335
 Ala Leu Lys Asp Ile Val Asp Ala Leu Gly Asp Arg Ile Phe Ser Leu
 340 345 350
 Glu Gly Thr Asn Lys Asn Glu Thr Ser Phe Gly Leu Glu Met Ser Gln
 355 360 365
 Thr Gly Phe Ser Ser His Val Val Glu Asp Gly Val Leu Leu Gly Ala
 370 375 380
 Val Gly Ala Tyr Asp Trp Asn Gly Ala Val Leu Lys Glu Thr Ser Ala
 385 390 395 400
 Gly Lys Val Ile Pro Leu Arg Glu Ser Tyr Leu Lys Glu Phe Pro Glu
 405 410 415
 Glu Leu Lys Asn His Gly Ala Tyr Leu Gly Tyr Thr Val Thr Ser Val
 420 425 430
 Val Ser Ser Arg Gln Gly Arg Val Tyr Val Ala Gly Ala Pro Arg Phe
 435 440 445
 Asn His Thr Gly Lys Val Ile Leu Phe Thr Met His Asn Asn Arg Ser
 450 455 460
 Leu Thr Ile His Gln Ala Met Arg Gly Gln Gln Ile Gly Ser Tyr Phe
 465 470 475 480
 Gly Ser Glu Ile Thr Ser Val Asp Ile Asp Gly Asp Gly Val Thr Asp
 485 490 495
 Val Leu Leu Val Gly Ala Pro Met Tyr Phe Asn Glu Gly Arg Glu Arg
 500 505 510
 Gly Lys Val Tyr Val Tyr Glu Leu Arg Gln Asn Arg Phe Val Tyr Asn
 515 520 525
 Gly Thr Leu Lys Asp Ser His Ser Tyr Gln Asn Ala Arg Phe Gly Ser
 530 535 540
 Ser Ile Ala Ser Val Arg Asp Leu Asn Gln Asp Ser Tyr Asn Asp Val
 545 550 555 560
 Val Val Gly Ala Pro Leu Glu Asp Asn His Ala Gly Ala Ile Tyr Ile
 565 570 575
 Phe His Gly Phe Arg Gly Ser Ile Leu Lys Thr Pro Lys Gln Arg Ile
 580 585 590
 Thr Ala Ser Glu Leu Ala Thr Gly Leu Gln Tyr Phe Gly Cys Ser Ile
 595 600 605
 His Gly Gln Leu Asp Leu Asn Glu Asp Gly Leu Ile Asp Leu Ala Val
 610 615 620
 Gly Ala Leu Gly Asn Ala Val Ile Leu Trp Ser Arg Pro Val Val Gln
 625 630 635 640
 Ile Asn Ala Ser Leu His Phe Glu Pro Ser Lys Ile Asn Ile Phe His
 645 650 655

Arg Asp Cys Lys Arg Ser Gly Arg Asp Ala Thr Cys Leu Ala Ala Phe
 660 665 670
 Leu Cys Phe Thr Pro Ile Phe Leu Ala Pro His Phe Gln Thr Thr Thr
 675 680 685
 Val Gly Ile Arg Tyr Asn Ala Thr Met Asp Glu Arg Arg Tyr Thr Pro
 690 695 700
 Arg Ala His Leu Asp Glu Gly Gly Asp Arg Phe Thr Asn Arg Ala Val
 705 710 715 720
 Leu Leu Ser Ser Gly Gln Glu Leu Cys Glu Arg Ile Asn Phe His Val
 725 730 735
 Leu Asp Thr Ala Asp Tyr Val Lys Pro Val Thr Phe Ser Val Glu Tyr
 740 745 750
 Ser Leu Glu Asp Pro Asp His Gly Pro Met Leu Asp Asp Gly Trp Pro
 755 760 765
 Thr Thr Leu Arg Val Ser Val Pro Phe Trp Asn Gly Cys Asn Glu Asp
 770 775 780
 Glu His Cys Val Pro Asp Leu Val Leu Asp Ala Arg Ser Asp Leu Pro
 785 790 795 800
 Thr Ala Met Glu Tyr Cys Gln Arg Val Leu Arg Lys Pro Ala Gln Asp
 805 810 815
 Cys Ser Ala Tyr Thr Leu Ser Phe Asp Thr Thr Val Phe Ile Ile Glu
 820 825 830
 Ser Thr Arg Gln Arg Val Ala Val Glu Ala Thr Leu Glu Asn Arg Gly
 835 840 845
 Glu Asn Ala Tyr Ser Thr Val Leu Asn Ile Ser Gln Ser Ala Asn Leu
 850 855 860
 Gln Phe Ala Ser Leu Ile Gln Lys Glu Asp Ser Asp Gly Ser Ile Glu
 865 870 875 880
 Cys Val Asn Glu Glu Arg Arg Leu Gln Lys Gln Val Cys Asn Val Ser
 885 890 895
 Tyr Pro Phe Phe Arg Ala Lys Ala Lys Val Ala Phe Arg Leu Asp Phe
 900 905 910
 Glu Phe Ser Lys Ser Ile Phe Leu His His Leu Glu Ile Glu Leu Ala
 915 920 925
 Ala Gly Ser Asp Ser Asn Glu Arg Asp Ser Thr Lys Glu Asp Asn Val
 930 935 940
 Ala Pro Leu Arg Phe His Leu Lys Tyr Glu Ala Asp Val Leu Phe Thr
 945 950 955 960
 Arg Ser Ser Ser Leu Ser His Tyr Glu Val Lys Pro Asn Ser Ser Leu
 965 970 975
 Glu Arg Tyr Asp Gly Ile Gly Pro Pro Phe Ser Cys Ile Phe Arg Ile
 980 985 990
 Gln Asn Leu Gly Leu Phe Pro Ile His Gly Met Met Met Lys Ile Thr
 995 1000 1005
 Ile Pro Ile Ala Thr Arg Ser Gly Asn Arg Leu Leu Lys Leu Arg Asp
 1010 1015 1020
 Phe Leu Thr Asp Glu Ala Asn Thr Ser Cys Asn Ile Trp Gly Asn Ser
 1025 1030 1035 1040
 Thr Glu Tyr Arg Pro Thr Pro Val Glu Glu Asp Leu Arg Arg Ala Pro
 1045 1050 1055
 Gln Leu Asn His Ser Asn Ser Asp Val Val Ser Ile Asn Cys Asn Ile
 1060 1065 1070
 Arg Leu Val Pro Asn Gln Glu Ile Asn Phe His Leu Leu Gly Asn Leu
 1075 1080 1085
 Trp Leu Arg Ser Leu Lys Ala Leu Lys Tyr Lys Ser Met Lys Ile Met
 1090 1095 1100
 Val Asn Ala Ala Leu Gln Arg Gln Phe His Ser Pro Phe Ile Phe Arg
 1105 1110 1115 1120
 Glu Glu Asp Pro Ser Arg Gln Ile Val Phe Glu Ile Ser Lys Gln Glu
 1125 1130 1135
 Asp Trp Gln Val Pro Ile Trp Ile Ile Val Gly Ser Thr Leu Gly Gly
 1140 1145 1150
 Leu Leu Leu Leu Ala Leu Leu Val Leu Ala Leu Trp Lys Leu Gly Phe
 1155 1160 1165

Phe Arg Ser Ala Arg Arg Arg Arg Glu Pro Gly Leu Asp Pro Thr Pro
 1170 1175 1180
 Lys Val Leu Glu *
 1185 1188

<210> 339
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 339
 Met Ala Leu Asn Ile Ile Ile Asn Pro Val Trp Phe Cys His Cys Leu
 1 5 10 15
 Thr Cys Thr Ile His Ile Asp Phe His Ile Leu Phe Ile Lys Ile Phe
 20 25 30
 Lys His Met Phe Phe Arg Ser Leu Trp Ser Ser Trp Leu Ser His Gln
 35 40 45
 Leu Asp His Ile *
 50 52

<210> 340
 <211> 78
 <212> PRT
 <213> Homo sapiens

<400> 340
 Met Ala Ile Phe Pro Leu Trp Lys Leu Leu Asn Val Leu Val Cys Ile
 1 5 10 15
 Phe Ser Ser Phe Ile Met Leu Asn Ile Tyr Cys Thr Leu Leu Ile Trp
 20 25 30
 Lys Phe Ile Tyr Ser Ala Phe Phe Cys Tyr Ile Thr Ser Leu Met Ile
 35 40 45
 Phe Pro Phe Ser Phe Phe Cys Ser Phe Phe Leu Asp Leu Leu Lys Val
 50 55 60
 Ile Val Tyr Ile Phe Phe Leu Tyr Leu Tyr Ser Ser Arg *
 65 70 75 77

<210> 341
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 341
 Met Gly Tyr Leu Leu Trp Leu Val Leu Ser Ile Leu Val Cys Thr Glu
 1 5 10 15
 Leu Gly Leu Gly Arg Leu Thr Phe Pro Leu Asp Ser Glu Ser Pro Arg
 20 25 30
 Thr Ser Tyr Lys Val Arg Pro Trp Val Val Leu Glu Ala Trp Val Trp
 35 40 45 48
 *

<210> 342

<211> 137
 <212> PRT
 <213> Homo sapiens

<400> 342
 Met Ser Gly Ser Gly Met Glu Leu Leu Met Asp Thr Gly Lys Glu Asp
 1 5 10 15
 Glu Val Ile Val Trp Ala Gln Met Cys Leu Ser His Leu Val Ser Leu
 20 25 30
 Phe Pro Ala Ala Thr Ala Phe Leu Ile Asn Lys Val Pro Leu Pro Val
 35 40 45
 Asp Lys Leu Ala Pro Leu Pro Leu Asp Asn Ile Leu Pro Phe Met Asp
 50 55 60
 Pro Leu Lys Leu Leu Leu Lys Thr Leu Gly Ile Ser Val Glu His Leu
 65 70 75 80
 Val Glu Gly Leu Arg Lys Cys Val Asn Glu Leu Arg Pro Glu Ala Ser
 85 90 95
 Glu Ala Val Lys Lys Leu Leu Val Thr Thr Ala Trp Glu Ala Asn Leu
 100 105 110
 Pro Lys Gly Arg His Thr His Pro Glu Cys Leu Ala Pro Leu Leu Val
 115 120 125
 Pro Cys Lys Cys Ala Phe Pro Leu Tyr
 130 135 137

<210> 343
 <211> 233
 <212> PRT
 <213> Homo sapiens

<400> 343
 Met Ala Trp Ile Pro Leu Phe Leu Gly Val Leu Ala Tyr Cys Thr Gly
 1 5 10 15
 Ser Val Ala Ser Tyr Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser
 20 25 30
 Pro Gly Gln Thr Ala Ser Ile Thr Cys Ser Gly Asp Lys Leu Gly Asp
 35 40 45
 Lys Tyr Ala Cys Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu
 50 55 60
 Val Ile Tyr Gln Asp Ser Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe
 65 70 75 80
 Ser Gly Ser Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr
 85 90 95
 Gln Ala Met Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Ser Ser
 100 105 110
 Thr Leu Tyr Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly Gln
 115 120 125
 Pro Lys Ala Asn Pro Thr Val Thr Leu Phe Pro Pro Ser Ser Glu Glu
 130 135 140
 Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp Phe Tyr
 145 150 155 160
 Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Gly Ser Pro Val Lys
 165 170 175
 Ala Gly Val Glu Thr Thr Lys Pro Ser Lys Gln Ser Asn Asn Lys Tyr
 180 185 190
 Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys Ser His
 195 200 205
 Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val Glu Lys
 210 215 220
 Thr Val Ala Pro Thr Glu Cys Ser *
 225 230 232

<210> 344
 <211> 270
 <212> PRT
 <213> Homo sapiens

<400> 344
 Met Leu Gln Thr Leu Asn Glu Glu Pro Val Thr Pro Glu Pro Glu Val
 1 5 10 15
 Glu Pro Pro Ser Ala Pro Glu Leu Lys Gln Gly Leu Tyr Glu Leu Ser
 20 25 30
 Ala Ser Asn Phe Glu Leu His Val Ala Gln Gly Asp His Phe Ile Lys
 35 40 45
 Phe Phe Ala Pro Trp Cys Gly His Cys Lys Ala Leu Ala Pro Thr Trp
 50 55 60
 Glu Gln Leu Ala Leu Gly Leu Glu His Ser Glu Thr Val Lys Ile Gly
 65 70 75 80
 Lys Val Asp Cys Thr Gln His Tyr Glu Leu Cys Ser Gly Asn Gln Val
 85 90 95
 Arg Gly Tyr Pro Thr Leu Leu Trp Phe Arg Asp Gly Lys Lys Val Asp
 100 105 110
 Gln Tyr Lys Gly Lys Arg Asp Leu Glu Ser Leu Arg Glu Tyr Val Glu
 115 120 125
 Ser Gln Leu Gln Arg Thr Glu Thr Gly Ala Thr Glu Thr Val Thr Pro
 130 135 140
 Ser Glu Ala Pro Val Leu Ala Ala Glu Pro Glu Ala Asp Lys Gly Thr
 145 150 155 160
 Val Leu Ala Leu Thr Glu Asn Asn Phe Asp Asp Thr Ile Ala Glu Gly
 165 170 175
 Ile Thr Phe Ile Lys Phe Tyr Ala Pro Trp Cys Gly His Cys Lys Thr
 180 185 190
 Leu Ala Pro Thr Trp Glu Glu Leu Ser Lys Lys Glu Phe Pro Gly Leu
 195 200 205
 Ala Gly Val Lys Ile Ala Glu Val Asp Cys Thr Ala Glu Arg Asn Ile
 210 215 220
 Cys Ser Lys Tyr Ser Val Arg Gly Tyr Pro Thr Leu Leu Leu Phe Arg
 225 230 235 240
 Gly Gly Lys Lys Val Ser Glu His Ser Gly Gly Arg Asp Leu Asp Ser
 245 250 255
 Leu His Arg Phe Val Leu Ser Gln Ala Lys Asp Glu Leu *
 260 265 269

<210> 345
 <211> 311
 <212> PRT
 <213> Homo sapiens

<400> 345
 Met Leu Leu Leu Leu Leu Leu Gly Pro Gly Ser Gly Leu Gly Ala
 1 5 10 15
 Val Val Ser Gln His Pro Ser Arg Val Ile Cys Lys Ser Gly Thr Ser
 20 25 30
 Val Lys Ile Glu Cys Arg Ser Leu Asp Phe Gln Ala Thr Thr Met Phe
 35 40 45
 Trp Tyr Arg Gln Phe Pro Lys Gln Ser Leu Met Leu Met Ala Thr Ser
 50 55 60
 Asn Glu Gly Ser Lys Ala Thr Tyr Glu Gln Gly Val Glu Lys Asp Lys
 65 70 75 80

Phe Leu Ile Asn His Ala Ser Leu Thr Leu Ser Thr Leu Thr Val Thr
 85 90 95
 Ser Ala His Pro Glu Asp Ser Ser Phe Tyr Ile Cys Ser Ala Arg Glu
 100 105 110
 Ser Thr Ser Asp Pro Lys Asn Glu Gln Phe Phe Gly Pro Gly Thr Arg
 115 120 125
 Leu Thr Val Thr Glu Asp Leu Lys Asn Val Phe Pro Pro Glu Val Ala
 130 135 140
 Val Phe Glu Pro Ser Glu Ala Glu Ile Ser His Thr Gln Lys Ala Thr
 145 150 155 160
 Leu Val Cys Leu Ala Thr Gly Phe Tyr Pro Asp His Val Glu Leu Ser
 165 170 175
 Trp Trp Val Asn Gly Lys Glu Val His Ser Gly Val Ser Thr Asp Pro
 180 185 190
 Gln Pro Leu Lys Glu Gln Pro Ala Leu Asn Asp Ser Arg Tyr Cys Leu
 195 200 205
 Ser Ser Arg Leu Arg Val Ser Ala Thr Phe Trp Gln Asn Pro Arg Asn
 210 215 220
 His Phe Arg Cys Gln Val Gln Phe Tyr Gly Leu Ser Glu Asn Asp Glu
 225 230 235 240
 Trp Thr Gln Asp Arg Ala Lys Pro Val Thr Gln Ile Val Ser Ala Glu
 245 250 255
 Ala Trp Gly Arg Ala Asp Cys Gly Phe Thr Ser Glu Ser Tyr Gln Gln
 260 265 270
 Gly Val Leu Ser Ala Thr Ile Leu Tyr Glu Ile Leu Leu Gly Lys Ala
 275 280 285
 Thr Leu Tyr Ala Val Leu Val Ser Ala Leu Val Leu Met Ala Met Val
 290 295 300
 Lys Arg Lys Asp Ser Arg Gly
 305 310 311

<210> 346
 <211> 552
 <212> PRT
 <213> Homo sapiens

<400> 346
 Met Leu Pro Leu Leu Leu Pro Leu Leu Trp Gly Gly Ser Leu Gln
 1 5 10 15
 Glu Lys Pro Val Tyr Glu Leu Gln Val Gln Lys Ser Val Thr Val Gln
 20 25 30
 Glu Gly Leu Cys Val Leu Val Pro Cys Ser Phe Ser Tyr Pro Trp Arg
 35 40 45
 Ser Trp Tyr Ser Ser Pro Pro Leu Tyr Val Tyr Trp Phe Arg Asp Gly
 50 55 60
 Glu Ile Pro Tyr Tyr Ala Glu Val Val Ala Thr Asn Asn Pro Asp Arg
 65 70 75 80
 Arg Val Lys Pro Glu Thr Gln Gly Arg Phe Arg Leu Leu Gly Asp Val
 85 90 95
 Gln Lys Lys Asn Cys Ser Leu Ser Ile Gly Asp Ala Arg Met Glu Asp
 100 105 110
 Thr Gly Ser Tyr Phe Phe Arg Val Glu Arg Gly Arg Asp Val Lys Tyr
 115 120 125
 Ser Tyr Gln Gln Asn Lys Leu Asn Leu Glu Val Thr Ala Leu Ile Glu
 130 135 140
 Lys Pro Asp Ile His Phe Leu Glu Pro Leu Glu Ser Gly Arg Pro Thr
 145 150 155 160
 Arg Leu Ser Cys Ser Leu Pro Gly Ser Cys Glu Ala Gly Pro Pro Leu
 165 170 175
 Thr Phe Ser Trp Thr Gly Asn Ala Leu Ser Pro Leu Asp Pro Glu Thr
 180 185 190

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Thr Arg Ser Ser Glu Leu Thr Leu Thr Pro Arg Pro Glu Asp His Gly
      195                200                205
Thr Asn Leu Thr Cys Gln Met Lys Arg Gln Gly Ala Gln Val Thr Thr
      210                215                220
Glu Arg Thr Val Gln Leu Asn Val Ser Tyr Ala Pro Gln Thr Ile Thr
      225                230                235                240
Ile Phe Arg Asn Gly Ile Ala Leu Glu Ile Leu Gln Asn Thr Ser Tyr
      245                250                255
Leu Pro Val Leu Glu Gly Gln Ala Leu Arg Leu Leu Cys Asp Ala Pro
      260                265                270
Ser Asn Pro Pro Ala His Leu Ser Trp Phe Gln Gly Ser Pro Ala Leu
      275                280                285
Asn Ala Thr Pro Ile Ser Asn Thr Gly Ile Leu Glu Leu Arg Arg Val
      290                295                300
Arg Ser Ala Glu Glu Gly Phe Thr Cys Arg Ala Gln His Pro Leu
      305                310                315                320
Gly Ser Leu Gln Ile Phe Leu Asn Leu Ser Val Tyr Ser Leu Pro Gln
      325                330                335
Leu Leu Gly Pro Ser Cys Ser Trp Glu Ala Glu Gly Leu His Cys Arg
      340                345                350
Cys Ser Phe Arg Ala Arg Pro Ala Pro Ser Leu Cys Trp Arg Leu Glu
      355                360                365
Glu Lys Pro Leu Glu Gly Asn Ser Ser Gln Gly Ser Phe Lys Val Asn
      370                375                380
Ser Ser Ser Ala Gly Pro Trp Ala Asn Ser Ser Leu Ile Leu His Gly
      385                390                395                400
Gly Leu Ser Ser Asp Leu Lys Val Ser Cys Lys Ala Trp Asn Ile Tyr
      405                410                415
Gly Ser Gln Ser Gly Ser Val Leu Leu Gln Gly Arg Ser Asn Leu
      420                425                430
Gly Thr Gly Val Val Pro Ala Ala Leu Gly Gly Ala Gly Val Met Ala
      435                440                445
Leu Leu Cys Ile Cys Leu Cys Leu Ile Phe Phe Leu Ile Val Lys Ala
      450                455                460
Arg Arg Lys Gln Ala Ala Gly Arg Pro Glu Lys Met Asp Asp Glu Asp
      465                470                475                480
Pro Ile Met Gly Thr Ile Thr Ser Gly Ser Arg Lys Lys Pro Trp Pro
      485                490                495
Asp Ser Pro Gly Asp Gln Ala Ser Pro Pro Gly Asp Ala Pro Pro Leu
      500                505                510
Glu Glu Gln Lys Glu Leu His Tyr Ala Ser Leu Ser Phe Ser Glu Met
      515                520                525
Lys Ser Arg Glu Pro Lys Asp Gln Glu Ala Pro Ser Thr Thr Glu Tyr
      530                535                540
Ser Glu Ile Lys Thr Ser Lys *
      545                550 551

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<210> 347
 <211> 1062
 <212> PRT
 <213> Homo sapiens

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<400> 347
Met Leu Gly Ser Asp Asp Phe Phe Tyr Val Gly Gly Ser Pro Ser Thr
  1      5      10      15
Ala Asp Leu Pro Gly Ser Pro Val Ser Asn Asn Phe Met Gly Cys Leu
      20      25      30
Lys Glu Val Val Tyr Lys Asn Asn Asp Ile Arg Leu Glu Leu Ser Arg
      35      40      45
Leu Ala Arg Ile Ala Asp Thr Lys Met Lys Ile Tyr Gly Glu Val Val
      50      55      60

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Phe Lys Cys Glu Asn Val Ala Thr Leu Asp Pro Ile Asn Phe Glu Thr
 65 70 75 80
 Pro Glu Ala Tyr Ile Ser Leu Pro Lys Trp Asn Thr Lys Arg Met Gly
 85 90 95
 Ser Ile Ser Phe Asp Phe Arg Thr Thr Glu Pro Asn Gly Leu Ile Leu
 100 105 110
 Phe Thr His Gly Lys Pro Gln Glu Arg Lys Asp Ala Arg Ser Gln Lys
 115 120 125
 Asn Thr Lys Val Asp Phe Phe Ala Val Glu Leu Leu Asp Gly Asn Leu
 130 135 140
 Tyr Leu Leu Leu Asp Met Gly Ser Gly Thr Ile Lys Val Lys Ala Thr
 145 150 155 160
 Gln Lys Lys Ala Asn Asp Gly Glu Trp Tyr His Val Asp Ile Gln Arg
 165 170 175
 Asp Gly Arg Ser Gly Thr Ile Ser Val Asn Ser Arg Arg Thr Pro Phe
 180 185 190
 Thr Ala Ser Gly Glu Ser Glu Ile Leu Asp Leu Glu Gly Asp Met Tyr
 195 200 205
 Leu Gly Gly Leu Pro Glu Asn Arg Ala Gly Leu Ile Leu Pro Thr Glu
 210 215 220
 Leu Trp Thr Ala Met Leu Asn Tyr Gly Tyr Val Gly Cys Ile Arg Asp
 225 230 235 240
 Leu Phe Ile Asp Gly Arg Ser Lys Asn Ile Arg Gln Leu Ala Glu Met
 245 250 255
 Gln Asn Ala Ala Gly Val Lys Ser Ser Cys Ser Arg Met Ser Ala Lys
 260 265 270
 Gln Cys Asp Ser Tyr Pro Cys Lys Asn Asn Ala Val Cys Lys Asp Gly
 275 280 285
 Trp Asn Arg Phe Ile Cys Asp Cys Thr Gly Thr Gly Tyr Trp Gly Arg
 290 295 300
 Thr Cys Glu Arg Glu Ala Ser Ile Leu Ser Tyr Asp Gly Ser Met Tyr
 305 310 315 320
 Met Lys Ile Ile Met Pro Met Val Met His Thr Glu Ala Glu Asp Val
 325 330 335
 Ser Phe Arg Phe Met Ser Gln Arg Ala Tyr Gly Leu Leu Val Ala Thr
 340 345 350
 Thr Ser Arg Asp Ser Ala Asp Thr Leu Arg Leu Glu Leu Asp Gly Gly
 355 360 365
 Arg Val Lys Leu Met Val Asn Leu Asp Cys Ile Arg Ile Asn Cys Asn
 370 375 380
 Ser Ser Lys Gly Pro Glu Thr Leu Tyr Ala Gly Gln Lys Leu Asn Asp
 385 390 395 400
 Asn Glu Trp His Thr Val Arg Val Val Arg Arg Gly Lys Ser Leu Lys
 405 410 415
 Leu Thr Val Asp Asp Val Ala Glu Gly Thr Met Val Gly Asp His
 420 425 430
 Thr Arg Leu Glu Phe His Asn Ile Glu Thr Gly Ile Met Thr Glu Lys
 435 440 445
 Arg Tyr Ile Ser Val Val Pro Ser Ser Phe Ile Gly His Leu Gln Ser
 450 455 460
 Leu Met Phe Asn Gly Leu Leu Tyr Ile Asp Leu Cys Lys Asn Gly Asp
 465 470 475 480
 Ile Asp Tyr Cys Glu Leu Lys Ala Arg Phe Gly Leu Arg Asn Ile Ile
 485 490 495
 Ala Asp Pro Val Thr Phe Lys Thr Lys Ser Ser Tyr Leu Ser Leu Ala
 500 505 510
 Thr Leu Gln Ala Tyr Thr Ser Met His Leu Phe Phe Gln Phe Lys Thr
 515 520 525
 Thr Ser Pro Asp Gly Phe Ile Leu Phe Asn Ser Gly Asp Gly Asn Asp
 530 535 540
 Phe Ile Ala Val Glu Leu Val Lys Gly Tyr Ile His Tyr Val Phe Asp
 545 550 555 560
 Leu Gly Asn Gly Pro Asn Val Ile Lys Gly Asn Ser Asp Arg Pro Leu
 565 570 575

Asn Asp Asn Gln Trp His Asn Val Val Ile Thr Arg Asp Asn Ser Asn
 580 585 590
 Thr His Ser Leu Lys Val Asp Thr Lys Val Val Thr Gln Val Ile Asn
 595 600 605
 Gly Ala Lys Asn Leu Asp Leu Lys Gly Asp Leu Tyr Met Ala Gly Leu
 610 615 620
 Ala Gln Gly Met Tyr Ser Asn Leu Pro Lys Leu Val Ala Ser Arg Asp
 625 630 635 640
 Gly Phe Gln Gly Cys Leu Ala Ser Gly Asp Leu Asn Gly Arg Leu Pro
 645 650 655
 Asp Leu Ile Asn Asp Ala Leu His Arg Ser Gly Gln Ile Glu Arg Gly
 660 665 670
 Cys Glu Gly Pro Ser Thr Thr Cys Gln Glu Asp Ser Cys Ala Asn Gln
 675 680 685
 Gly Val Cys Met Gln Gln Trp Glu Gly Phe Thr Cys Asp Cys Ser Met
 690 695 700
 Thr Ser Tyr Ser Gly Asn Gln Cys Asn Asp Pro Gly Ala Thr Tyr Ile
 705 710 715 720
 Phe Gly Lys Ser Gly Gly Leu Ile Leu Tyr Thr Trp Pro Ala Asn Asp
 725 730 735
 Arg Pro Ser Thr Arg Ser Asp Arg Leu Ala Val Gly Phe Ser Thr Thr
 740 745 750
 Val Lys Asp Gly Ile Leu Val Arg Ile Asp Ser Ala Pro Gly Leu Gly
 755 760 765
 Asp Phe Leu Gln Leu His Ile Glu Gln Gly Lys Ile Gly Val Val Phe
 770 775 780
 Asn Ile Gly Thr Val Asp Ile Ser Ile Lys Glu Glu Arg Thr Pro Val
 785 790 795 800
 Asn Asp Gly Lys Tyr His Val Val Arg Phe Thr Arg Asn Gly Gly Asn
 805 810 815
 Ala Thr Leu Gln Val Asp Asn Trp Pro Val Asn Glu His Tyr Pro Thr
 820 825 830
 Gly Arg Gln Leu Thr Ile Phe Asn Thr Gln Ala Gln Ile Ala Ile Gly
 835 840 845
 Gly Lys Asp Lys Gly Arg Leu Phe Gln Gly Gln Leu Ser Gly Leu Tyr
 850 855 860
 Tyr Asp Gly Leu Lys Val Leu Asn Met Ala Ala Glu Asn Asn Pro Asn
 865 870 875 880
 Ile Lys Ile Asn Gly Ser Val Arg Leu Val Gly Glu Val Pro Ser Ile
 885 890 895
 Leu Gly Thr Thr Gln Thr Thr Ser Met Pro Pro Glu Met Ser Thr Thr
 900 905 910
 Val Met Glu Thr Thr Thr Thr Met Ala Thr Thr Thr Thr Arg Lys Asn
 915 920 925
 Arg Ser Thr Ala Ser Ile Gln Pro Thr Ser Asp Asp Leu Val Ser Ser
 930 935 940
 Ala Glu Cys Ser Ser Asp Asp Glu Asp Phe Val Glu Cys Glu Pro Ser
 945 950 955 960
 Thr Ala Asn Pro Thr Glu Pro Gly Ile Arg Arg Val Pro Gly Ala Ser
 965 970 975
 Glu Val Ile Arg Glu Ser Ser Ser Thr Thr Gly Met Val Val Gly Ile
 980 985 990
 Val Ala Ala Ala Leu Cys Ile Leu Ile Leu Leu Tyr Ala Met Tyr
 995 1000 1005
 Lys Tyr Arg Asn Arg Asp Glu Gly Ser Tyr Gln Val Asp Glu Thr Arg
 1010 1015 1020
 Asn Tyr Ile Ser Asn Ser Ala Gln Ser Asn Gly Thr Leu Met Lys Glu
 1025 1030 1035 1040
 Lys Gln Gln Ser Ser Lys Ser Gly His Lys Lys Gln Lys Asn Lys Asp
 1045 1050 1055
 Arg Glu Tyr Tyr Val *
 10601061

<210> 348
 <211> 1092
 <212> PRT
 <213> Homo sapiens

<400> 348
 Met Leu Gly Ser Asp Asp Phe Phe Tyr Val Gly Gly Ser Pro Ser Thr
 1 5 10 15
 Ala Asp Leu Pro Gly Ser Pro Val Ser Asn Asn Phe Met Gly Cys Leu
 20 25 30
 Lys Glu Val Val Tyr Lys Asn Asn Asp Ile Arg Leu Glu Leu Ser Arg
 35 40 45
 Leu Ala Arg Ile Ala Asp Thr Lys Met Lys Ile Tyr Gly Glu Val Val
 50 55 60
 Phe Lys Cys Glu Asn Val Ala Thr Leu Asp Pro Ile Asn Phe Glu Thr
 65 70 75 80
 Pro Glu Ala Tyr Ile Ser Leu Pro Lys Trp Asn Thr Lys Arg Met Gly
 85 90 95
 Ser Ile Ser Phe Asp Phe Arg Thr Thr Glu Pro Asn Gly Leu Ile Leu
 100 105 110
 Phe Thr His Gly Lys Pro Gln Glu Arg Lys Asp Ala Arg Ser Gln Lys
 115 120 125
 Asn Thr Lys Val Asp Phe Phe Ala Val Glu Leu Leu Asp Gly Asn Leu
 130 135 140
 Tyr Leu Leu Leu Asp Met Gly Ser Gly Thr Ile Lys Val Lys Ala Thr
 145 150 155 160
 Gln Lys Lys Ala Asn Asp Gly Glu Trp Tyr His Val Asp Ile Gln Arg
 165 170 175
 Asp Gly Arg Ser Gly Thr Ile Ser Val Asn Ser Arg Arg Thr Pro Phe
 180 185 190
 Thr Ala Ser Gly Glu Ser Glu Ile Leu Asp Leu Glu Gly Asp Met Tyr
 195 200 205
 Leu Gly Gly Leu Pro Glu Asn Arg Ala Gly Leu Ile Leu Pro Thr Glu
 210 215 220
 Leu Trp Thr Ala Met Leu Asn Tyr Gly Tyr Val Gly Cys Ile Arg Asp
 225 230 235 240
 Leu Phe Ile Asp Gly Arg Ser Lys Asn Ile Arg Gln Leu Ala Glu Met
 245 250 255
 Gln Asn Ala Ala Gly Val Lys Ser Ser Cys Ser Arg Met Ser Ala Lys
 260 265 270
 Gln Cys Asp Ser Tyr Pro Cys Lys Asn Asn Ala Val Cys Lys Asp Gly
 275 280 285
 Trp Asn Arg Phe Ile Cys Asp Cys Thr Gly Thr Gly Tyr Trp Gly Arg
 290 295 300
 Thr Cys Glu Arg Glu Ala Ser Ile Leu Ser Tyr Asp Gly Ser Met Tyr
 305 310 315 320
 Met Lys Ile Ile Met Pro Met Val Met His Thr Glu Ala Glu Asp Val
 325 330 335
 Ser Phe Arg Phe Met Ser Gln Arg Ala Tyr Gly Leu Leu Val Ala Thr
 340 345 350
 Thr Ser Arg Asp Ser Ala Asp Thr Leu Arg Leu Glu Leu Asp Gly Gly
 355 360 365
 Arg Val Lys Leu Met Val Asn Leu Asp Cys Ile Arg Ile Asn Cys Asn
 370 375 380
 Ser Ser Lys Gly Pro Glu Thr Leu Tyr Ala Gly Gln Lys Leu Asn Asp
 385 390 395 400
 Asn Glu Trp His Thr Val Arg Val Val Arg Arg Gly Lys Ser Leu Lys
 405 410 415
 Leu Thr Val Asp Asp Val Ala Glu Gly Thr Met Val Gly Asp His
 420 425 430
 Thr Arg Leu Glu Phe His Asn Ile Glu Thr Gly Ile Met Thr Glu Lys
 435 440 445

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Arg Tyr Ile Ser Val Val Pro Ser Ser Phe Ile Gly His Leu Gln Ser
450          455          460
Leu Met Phe Asn Gly Leu Leu Tyr Ile Asp Leu Cys Lys Asn Gly Asp
465          470          475          480
Ile Asp Tyr Cys Glu Leu Lys Ala Arg Phe Gly Leu Arg Asn Ile Ile
          485          490          495
Ala Asp Pro Val Thr Phe Lys Thr Lys Ser Ser Tyr Leu Ser Leu Ala
          500          505          510
Thr Leu Gln Ala Tyr Thr Ser Met His Leu Phe Phe Gln Phe Lys Thr
          515          520          525
Thr Ser Pro Asp Gly Phe Ile Leu Phe Asn Ser Gly Asp Gly Asn Asp
          530          535          540
Phe Ile Ala Val Glu Leu Val Lys Gly Tyr Ile His Tyr Val Phe Asp
545          550          555          560
Leu Gly Asn Gly Pro Asn Val Ile Lys Gly Asn Ser Asp Arg Pro Leu
          565          570          575
Asn Asp Asn Gln Trp His Asn Val Val Ile Thr Arg Asp Asn Ser Asn
          580          585          590
Thr His Ser Leu Lys Val Asp Thr Lys Val Val Thr Gln Val Ile Asn
          595          600          605
Gly Ala Lys Asn Leu Asp Leu Lys Gly Asp Leu Tyr Met Ala Gly Leu
          610          615          620
Ala Gln Gly Met Tyr Ser Asn Leu Pro Lys Leu Val Ala Ser Arg Asp
625          630          635          640
Gly Phe Gln Gly Cys Leu Ala Ser Gly Asp Leu Asn Gly Arg Leu Pro
          645          650          655
Asp Leu Ile Asn Asp Ala Leu His Arg Ser Gly Gln Ile Glu Arg Gly
          660          665          670
Cys Glu Gly Pro Ser Thr Thr Cys Gln Glu Asp Ser Cys Ala Asn Gln
          675          680          685
Gly Val Cys Met Gln Gln Trp Glu Gly Phe Thr Cys Asp Cys Ser Met
          690          695          700
Thr Ser Tyr Ser Gly Asn Gln Cys Asn Asp Pro Gly Ala Thr Tyr Ile
705          710          715          720
Phe Gly Lys Ser Gly Gly Leu Ile Leu Tyr Thr Trp Pro Ala Asn Asp
          725          730          735
Arg Pro Ser Thr Arg Ser Asp Arg Leu Ala Val Gly Phe Ser Thr Thr
          740          745          750
Val Lys Asp Gly Ile Leu Val Arg Ile Asp Ser Ala Pro Gly Leu Gly
          755          760          765
Asp Phe Leu Gln Leu His Ile Glu Gln Gly Lys Ile Gly Val Val Phe
          770          775          780
Asn Ile Gly Thr Val Asp Ile Ser Ile Lys Glu Arg Thr Pro Val
785          790          795          800
Asn Asp Gly Lys Tyr His Val Val Arg Phe Thr Arg Asn Gly Gly Asn
          805          810          815
Ala Thr Leu Gln Val Asp Asn Trp Pro Val Asn Glu His Tyr Pro Thr
          820          825          830
Gly Asn Thr Asp Asn Glu Arg Phe Gln Met Val Lys Gln Lys Ile Pro
          835          840          845
Phe Lys Tyr Asn Arg Pro Val Glu Glu Trp Leu Gln Glu Lys Gly Arg
          850          855          860
Gln Leu Thr Ile Phe Asn Thr Gln Ala Gln Ile Ala Ile Gly Gly Lys
865          870          875          880
Asp Lys Gly Arg Leu Phe Gln Gly Gln Leu Ser Gly Leu Tyr Tyr Asp
          885          890          895
Gly Leu Lys Val Leu Asn Met Ala Ala Glu Asn Asn Pro Asn Ile Lys
          900          905          910
Ile Asn Gly Ser Val Arg Leu Val Gly Glu Val Pro Ser Ile Leu Gly
          915          920          925
Thr Thr Gln Thr Thr Ser Met Pro Pro Glu Met Ser Thr Thr Val Met
          930          935          940
Glu Thr Thr Thr Thr Met Ala Thr Thr Thr Thr Arg Lys Asn Arg Ser
945          950          955          960

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Thr Ala Ser Ile Gln Pro Thr Ser Asp Asp Leu Val Ser Ser Ala Glu
 965 970 975
 Cys Ser Ser Asp Asp Glu Asp Phe Val Glu Cys Glu Pro Ser Thr Ala
 980 985 990
 Asn Pro Thr Glu Pro Gly Ile Arg Arg Val Pro Gly Ala Ser Glu Val
 995 1000 1005
 Ile Arg Glu Ser Ser Ser Thr Thr Gly Met Val Val Gly Ile Val Ala
 1010 1015 1020
 Ala Ala Ala Leu Cys Ile Leu Ile Leu Leu Tyr Ala Met Tyr Lys Tyr
 1025 1030 1035 1040
 Arg Asn Arg Asp Glu Gly Ser Tyr Gln Val Asp Glu Thr Arg Asn Tyr
 1045 1050 1055
 Ile Ser Asn Ser Ala Gln Ser Asn Gly Thr Leu Met Lys Glu Lys Gln
 1060 1065 1070
 Gln Ser Ser Lys Ser Gly His Lys Lys Gln Lys Asn Lys Asp Arg Glu
 1075 1080 1085
 Tyr Tyr Val *
 10901091

<210> 349
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 349
 Met Gly Ser Leu Met Pro Leu Arg Pro Leu Ala Leu His Thr Ala Leu
 1 5 10 15
 Gly Ala Ala Leu Asn Phe Ser Leu Pro Cys Glu Trp Ser Thr Leu Pro
 20 25 30
 Ser Ala Ser Glu Ala Gly Arg Leu Trp Gly Pro Pro Ser Phe Gln
 35 40 45 47

<210> 350
 <211> 459
 <212> PRT
 <213> Homo sapiens

<400> 350
 Met Ala Trp Ala Ser Arg Leu Gly Leu Leu Leu Ala Leu Leu Leu Pro
 1 5 10 15
 Val Val Gly Ala Ser Thr Pro Gly Thr Val Val Arg Leu Asn Lys Ala
 20 25 30
 Ala Leu Ser Tyr Val Ser Glu Ile Gly Lys Ala Pro Leu Gln Arg Ala
 35 40 45
 Leu Gln Val Thr Val Pro His Phe Leu Asp Trp Ser Gly Glu Ala Leu
 50 55 60
 Gln Pro Thr Arg Ile Arg Ile Leu Asn Val His Val Pro Arg Leu His
 65 70 75 80
 Leu Lys Phe Ile Ala Gly Phe Gly Val Arg Leu Leu Ala Ala Ala Asn
 85 90 95
 Phe Thr Phe Lys Val Phe Arg Ala Pro Glu Pro Leu Glu Leu Thr Leu
 100 105 110
 Pro Val Glu Leu Leu Ala Asp Thr Arg Val Thr Gln Ser Ser Ile Arg
 115 120 125
 Thr Pro Val Val Ser Ile Ser Ala Cys Ser Leu Phe Ser Gly His Ala
 130 135 140
 Asn Glu Phe Asp Gly Ser Asn Ser Thr Ser His Ala Leu Leu Val Leu
 145 150 155 160

Val Gln Lys His Ile Lys Ala Val Leu Ser Asn Lys Leu Cys Leu Ser
 165 170 175
 Ile Ser Asn Leu Val Gln Gly Val Asn Val His Leu Gly Thr Leu Ile
 180 185 190
 Gly Leu Asn Pro Val Gly Pro Glu Ser Gln Ile Arg Tyr Ser Met Val
 195 200 205
 Ser Val Pro Thr Val Thr Ser Asp Tyr Ile Ser Leu Glu Val Asn Ala
 210 215 220
 Val Leu Phe Leu Leu Gly Lys Pro Ile Ile Leu Pro Thr Asp Ala Thr
 225 230 235 240
 Pro Phe Val Leu Pro Arg His Val Gly Thr Glu Gly Ser Met Ala Thr
 245 250 255
 Val Gly Leu Ser Gln Gln Leu Phe Asp Ser Ala Leu Leu Leu Leu Gln
 260 265 270
 Lys Ala Gly Ala Leu Asn Leu Asp Ile Thr Gly Gln Leu Arg Ser Asp
 275 280 285
 Asp Asn Leu Leu Asn Thr Ser Ala Leu Gly Arg Leu Ile Pro Glu Val
 290 295 300
 Ala Arg Gln Phe Pro Glu Pro Met Pro Val Val Leu Lys Val Arg Leu
 305 310 315 320
 Gly Ala Thr Pro Val Ala Met Leu His Thr Asn Asn Ala Thr Leu Arg
 325 330 335
 Leu Gln Pro Phe Val Glu Val Leu Ala Thr Ala Ser Asn Ser Ala Phe
 340 345 350
 Gln Ser Leu Phe Ser Leu Asp Val Val Val Asn Leu Arg Leu Gln Leu
 355 360 365
 Ser Val Ser Lys Val Lys Leu Gln Gly Thr Thr Ser Val Leu Gly Asp
 370 375 380
 Val Gln Leu Thr Val Ala Ser Ser Asn Val Gly Phe Ile Asp Thr Asp
 385 390 395 400
 Gln Val Arg Thr Leu Met Gly Thr Val Phe Glu Lys Pro Leu Leu Asp
 405 410 415
 His Leu Asn Ala Leu Leu Ala Met Gly Ile Ala Leu Pro Gly Val Val
 420 425 430
 Asn Leu His Tyr Val Ala Pro Glu Ile Phe Val Tyr Glu Gly Tyr Val
 435 440 445
 Val Ile Ser Ser Gly Leu Phe Tyr Gln Ser *
 450 455 458

<210> 351

<211> 67

<212> PRT

<213> Homo sapiens

<400> 351

Met Lys Leu Val Leu Leu Arg Lys Thr Ser Leu Ser Val Phe Thr Thr
 1 5 10 15
 Leu Phe Ser Val Ser Ser Ser Gln Tyr Pro Val Leu Ser Thr Ser Ile
 20 25 30
 Cys Asn Thr Pro Val Phe Ser Thr Leu Phe Leu Val Ser Cys Ser Val
 35 40 45
 Asn Pro Leu Pro Ser Thr Val Phe Leu Val Leu Leu Tyr Ser Val Ala
 50 55 60
 Cys Leu *
 65 66

<210> 352

<211> 174

<212> PRT

<213> Homo sapiens

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<400> 352
Met Ala Ser Arg Lys Thr Lys Lys Lys Glu Gly Gly Ala Leu Arg Ala
 1           5           10           15
Gln Arg Ala Ser Asn Val Phe Ser Asn Phe Glu Gln Thr Gln Ile
           20           25           30
Gln Glu Phe Lys Glu Ala Phe Thr Leu Met Asp Gln Asn Arg Asp Gly
           35           40           45
Phe Ile Asp Lys Glu Asp Leu Lys Asp Thr Tyr Ala Ser Leu Gly Lys
           50           55           60
Thr Asn Val Lys Asp Asp Glu Leu Asp Ala Met Leu Lys Glu Ala Ser
           65           70           75           80
Gly Pro Ile Asn Phe Thr Met Phe Leu Asn Leu Phe Gly Glu Lys Leu
           85           90           95
Ser Gly Thr Asp Ala Glu Glu Thr Ile Leu Asn Ala Phe Lys Met Leu
           100          105          110
Asp Pro Asp Gly Lys Gly Lys Ile Asn Lys Glu Tyr Ile Lys Arg Leu
           115          120          125
Leu Met Ser Gln Ala Asp Lys Met Thr Ala Glu Glu Val Asp Gln Met
           130          135          140
Phe Gln Phe Ala Ser Ile Asp Val Ala Gly Asn Leu Asp Tyr Lys Ala
           145          150          155          160
Leu Ser Tyr Val Ile Thr His Gly Glu Glu Lys Glu Glu *
           165          170          173

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<210> 353

<211> 64

<212> PRT

<213> Homo sapiens

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<400> 353
Met Leu Leu Ala Lys Arg Tyr Ala Lys Tyr Phe Ile Tyr Phe Ile Phe
 1           5           10           15
Phe Asn Pro Val Leu Ile Pro Ile Leu Gln Arg Arg Ile Leu Arg Leu
           20           25           30
Gly Glu Ile His Ile Ala Gly Gln Cys Arg Ala Gly Ser Leu Gln Ser
           35           40           45
Leu Pro Leu Pro Ala Asn Leu His Ser Ile Leu Asp Ile Leu Ala *
           50           55           60           63

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<210> 354

<211> 321

<212> PRT

<213> Homo sapiens

```

<400> 354
Met Ala Ala Ala Thr Gly Ala Val Ala Ala Ser Ala Ala Ser Gly Gln
 1           5           10           15
Ala Glu Gly Lys Lys Ile Thr Asp Leu Arg Val Ile Asp Leu Lys Ser
           20           25           30
Glu Leu Lys Arg Arg Asn Leu Asp Ile Thr Gly Val Lys Thr Val Leu
           35           40           45
Ile Ser Arg Leu Lys Gln Ala Ile Glu Glu Glu Gly Gly Asp Pro Asp
           50           55           60
Asn Ile Glu Leu Thr Val Ser Thr Asp Thr Pro Asn Lys Lys Pro Thr
           65           70           75           80

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<210> 355
<211> 59
<212> PRT
<213> Homo sapiens
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<210> 356
<211> 72
<212> PRT
<213> Homo sapiens
```

432

Arg Ala Ser Arg Glu Arg Pro Ser Glu Asp Asn Leu Ser Pro Ala Val
 35 40 45
 Lys Glu Glu Ser Gly Phe Val Val Ser Glu His Leu Ala Ala Leu His
 50 55 60
 Arg Lys Leu Arg Gly Cys His *
 65 70 71

<210> 357
 <211> 311
 <212> PRT
 <213> Homo sapiens

<400> 357
 Met Leu Leu Leu Leu Leu Leu Gly Pro Ala Gly Ser Gly Leu Gly
 1 5 10 15
 Ala Val Val Ser Gln His Pro Ser Arg Val Ile Cys Lys Ser Gly Thr
 20 25 30
 Ser Val Lys Ile Glu Cys Arg Ser Leu Asp Phe Gln Ala Thr Thr Met
 35 40 45
 Phe Trp Tyr Arg Gln Phe Pro Lys Gln Ser Leu Met Leu Met Ala Thr
 50 55 60
 Ser Asn Glu Gly Ser Lys Ala Thr Tyr Glu Gln Gly Val Glu Lys Asp
 65 70 75 80
 Lys Phe Leu Ile Asn His Ala Ser Leu Thr Leu Ser Thr Leu Thr Val
 85 90 95
 Thr Ser Ala His Pro Glu Asp Ser Ser Phe Tyr Ile Cys Ser Ala Ser
 100 105 110
 Gly Met Arg Arg Thr Asp Thr Gln Tyr Phe Gly Pro Gly Thr Arg Leu
 115 120 125
 Thr Val Leu Glu Asp Leu Lys Asn Val Phe Pro Pro Glu Val Ala Val
 130 135 140
 Phe Glu Pro Ser Glu Ala Glu Ile Ser His Thr Gln Lys Ala Thr Leu
 145 150 155 160
 Val Cys Leu Ala Thr Gly Phe Tyr Pro Asp His Val Glu Leu Ser Trp
 165 170 175
 Trp Val Asn Gly Lys Glu Val His Ser Gly Val Ser Thr Asp Pro Gln
 180 185 190
 Pro Leu Lys Glu Gln Pro Ala Leu Asn Asp Ser Arg Tyr Cys Leu Ser
 195 200 205
 Ser Arg Leu Arg Val Ser Ala Thr Phe Trp Gln Asn Pro Arg Asn His
 210 215 220
 Phe Arg Cys Gln Val Gln Phe Tyr Gly Leu Ser Glu Asn Asp Glu Trp
 225 230 235 240
 Thr Gln Asp Arg Ala Lys Pro Val Thr Gln Ile Val Ser Ala Glu Ala
 245 250 255
 Trp Gly Arg Ala Asp Cys Gly Phe Thr Ser Glu Ser Tyr Gln Gln Gly
 260 265 270
 Val Leu Ser Ala Thr Ile Leu Tyr Glu Ile Leu Leu Gly Lys Ala Thr
 275 280 285
 Leu Tyr Ala Val Leu Val Ser Ala Leu Val Leu Met Ala Met Val Lys
 290 295 300
 Arg Lys Asp Ser Arg Gly *
 305 310

<210> 358
 <211> 53
 <212> PRT
 <213> Homo sapiens

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<210> 359
<211> 67
<212> PRT
<213> Homo sapiens
```

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<210> 360
<211> 72
<212> PRT
<213> Homo sapiens
```

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<210> 361
<211> 50
<212> PRT
<213> Homo sapiens
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434

Lys Leu Thr Glu Leu Asn Thr Ile Thr Leu Ile Cys Lys Ser Ile Ile
 35 40 45
 Phe *
 49

<210> 362
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 362
 Met Asn Ile Val Phe Val Ile Leu Leu Phe Lys Asp Met Gln Val Leu
 1 5 10 15
 Glu Val Phe Val Leu Leu Asn Val Leu Thr Thr Leu Thr Ile Ile Ala
 20 25 30
 Ala Gly Ile Leu Cys Thr Ser Phe Cys Cys Lys Pro Phe Ile Tyr Ile
 35 40 45
 Asn Pro Leu *
 50 51

<210> 363
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 363
 Met Ile Arg Phe Ala Leu Pro Trp Phe Ser Gln Ile Trp Leu Ser Lys
 1 5 10 15
 Gln Thr Trp Thr Arg Leu Thr His Leu Ala Phe Leu Leu Gln Glu Cys
 20 25 30
 Asn Ser Met Phe Tyr Pro Lys Val Ser Arg Thr Thr Val Phe Gly Cys
 35 40 45
 Leu Phe Asn Pro Leu Ser Ser Arg Val Cys Phe Glu *
 50 55 60

<210> 364
 <211> 89
 <212> PRT
 <213> Homo sapiens

<400> 364
 Met Thr Asn Phe Phe His Leu Leu Leu Pro Leu Leu Pro Ser Leu Phe
 1 5 10 15
 Ser Pro Ser Ser Lys Thr His Ser Phe Asn Ile His Lys Ile Ile Ile
 20 25 30
 Ile Ile Leu Phe Phe Asn Ser Ile Phe Leu Tyr Pro Arg Asp Tyr Leu
 35 40 45
 Lys Ile Arg Asn Trp Leu Gln Ser Asn Thr Leu Glu Arg Glu Ile Glu
 50 55 60
 Trp Ile Thr Ser Ile Arg Cys Leu Cys Asn Ser Gly Thr Thr Phe Ile
 65 70 75 80
 Phe Pro Leu Thr Thr Lys Ser Thr *
 85 88

<210> 365
 <211> 433
 <212> PRT
 <213> Homo sapiens

<400> 365
 Met Leu Glu Asn Tyr Gly Asn Leu Val Ser Val Gly Cys Gln Leu Ser
 1 5 10 15
 Lys Pro Gly Val Ile Ser Gln Leu Glu Lys Gly Glu Glu Pro Trp Leu
 20 25 30
 Met Glu Arg Asp Ile Ser Gly Val Pro Ser Ser Asp Leu Lys Ser Lys
 35 40 45
 Thr Lys Thr Lys Glu Ser Ala Leu Gln Asn Asp Ile Ser Trp Glu Glu
 50 55 60
 Leu His Cys Gly Leu Met Met Glu Arg Phe Thr Lys Gly Ser Ser Met
 65 70 75 80
 Tyr Ser Thr Leu Gly Arg Ile Ser Lys Cys Asn Lys Leu Glu Ser Gln
 85 90 95
 Gln Glu Asn Gln Arg Met Gly Lys Gly Gln Ile Pro Leu Met Cys Lys
 100 105 110
 Lys Thr Phe Thr Gln Glu Arg Gly Gln Glu Ser Asn Arg Phe Glu Lys
 115 120 125
 Arg Ile Asn Val Lys Ser Glu Val Met Pro Gly Pro Ile Gly Leu Pro
 130 135 140
 Arg Lys Arg Asp Arg Lys Tyr Asp Thr Pro Gly Lys Arg Ser Arg Tyr
 145 150 155 160
 Asn Ile Asp Leu Val Asn His Ser Arg Ser Tyr Thr Lys Met Lys Thr
 165 170 175
 Phe Glu Cys Asn Ile Cys Glu Lys Ile Phe Lys Gln Leu Ile His Leu
 180 185 190
 Thr Glu His Met Arg Ile His Thr Gly Glu Lys Pro Phe Arg Cys Lys
 195 200 205
 Glu Cys Gly Lys Ala Phe Ser Gln Ser Ser Ser Leu Ile Pro His Gln
 210 215 220
 Arg Ile His Thr Gly Glu Lys Pro Tyr Glu Cys Lys Glu Cys Gly Lys
 225 230 235 240
 Thr Phe Arg His Pro Ser Ser Leu Thr Gln His Val Arg Ile His Thr
 245 250 255
 Gly Glu Lys Pro Tyr Glu Cys Arg Val Cys Glu Lys Ala Phe Ser Gln
 260 265 270
 Ser Ile Gly Leu Ile Gln His Leu Arg Thr His Val Arg Glu Lys Pro
 275 280 285
 Phe Thr Cys Lys Asp Cys Gly Lys Ala Phe Phe Gln Ile Arg His Leu
 290 295 300
 Arg Gln His Glu Ile Ile His Thr Gly Val Lys Pro Tyr Ile Cys Asn
 305 310 315 320
 Val Cys Ser Lys Thr Phe Ser His Ser Thr Tyr Leu Thr Gln His Gln
 325 330 335
 Arg Thr His Thr Gly Glu Arg Pro Tyr Lys Cys Lys Glu Cys Gly Lys
 340 345 350
 Ala Phe Ser Gln Arg Ile His Leu Ser Ile His Gln Arg Val His Thr
 355 360 365
 Gly Val Lys Pro Tyr Glu Cys Ser His Cys Gly Lys Ala Phe Arg His
 370 375 380
 Asp Ser Ser Phe Ala Lys His Gln Arg Ile His Thr Gly Glu Lys Pro
 385 390 395 400
 Tyr Asp Cys Asn Glu Cys Gly Lys Ala Phe Ser Cys Ser Ser Ser Leu
 405 410 415
 Ile Arg His Cys Lys Thr His Leu Arg Asn Thr Phe Ser Asn Val Val
 420 425 430 432

*

<210> 366
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 366
 Met Pro Cys Ser Val Pro Glu Thr Leu Phe Ser Leu Leu Trp Leu Ala
 1 5 10 15
 Pro Ser His His Ser Gly Phe Ser Ser Asn Glu Ala Ser Leu Arg Thr
 20 25 30
 Asp Leu Leu Phe Ala Thr Ala Ile Leu Tyr Ser Leu Trp His Pro Pro
 35 40 45
 Tyr Tyr Phe Leu Tyr Asn Thr Ser *
 50 55 56

<210> 367
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 367
 Met Leu Phe Thr Ser Phe Val Tyr Gly Leu Ile Phe Ile Leu Phe Asp
 1 5 10 15
 Phe Tyr Phe Leu Ser Phe Val Glu Arg Asp Val Lys Ile Phe Asn Cys
 20 25 30
 Asn Gly Glu Ile Val Leu Phe Pro Phe Asn Ser Val His Phe Cys Leu
 35 40 45
 Ile Cys Leu Tyr Ile His Ile *
 50 55

<210> 368
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 368
 Met Ile Leu Asn Leu Ser Ser Leu Thr Leu Val Phe Ala Trp Asn Tyr
 1 5 10 15
 Pro Leu His Leu Met Ile Ser Leu Asn Val Ser Cys Ser Cys Tyr Ser
 20 25 30
 Asp Asp Ile Ser Gly Ile Tyr Arg Ser Val Leu Arg Gln Lys Leu Gly
 35 40 45 48
 *

<210> 369
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 369


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Met Cys Leu Ile Leu Val Ile Trp Lys Ile His Tyr Ala Glu Leu Ile
 1              5              10              15
Met Leu Asn Lys Arg Val Val Asn Lys Cys Arg Ser Cys Leu Ile Gln
              20              25              30
Lys Cys Leu Ser Thr Cys His Ser Thr Val Ile Val Leu Tyr Gln Cys
              35              40              45
Arg Glu Glu Glu Ala Val Met Leu Ile Lys Leu Asn Phe Lys Met Lys
              50              55              60
Ile Gln Arg Thr Ile Cys Ile *
65              70 71

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<210> 370
<211> 83
<212> PRT
<213> Homo sapiens

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<400> 370
Met Asn Asn Met Asn Leu Lys Arg Leu Leu Leu Phe Leu Ala Lys Met
 1              5              10              15
Phe Ser Ala Ile Phe Ser Leu Pro Thr His Pro Ser His Phe Pro Ile
              20              25              30
Ser Ile Tyr Asp Asn Ile Gly His Trp Pro Gln Ser Pro Lys Val Arg
              35              40              45
Arg Lys Glu Gly Asn Glu Tyr Leu Leu Asn Pro Asn Met Cys Gln Thr
              50              55              60
Leu Asp Leu Thr Leu Leu Gly Ile Gly Asp Tyr Leu Thr Ser Ile Thr
65              70              75              80
Ser Pro *
82

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<210> 371
<211> 91
<212> PRT
<213> Homo sapiens

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```

<400> 371
Met Ala Pro Leu Pro Ser Leu Thr Leu Arg Pro Trp Cys Val Leu Met
 1              5              10              15
Leu Leu Asp Leu Trp Ala Ala Phe Gly Thr Ile Thr Pro Ser Leu Lys
              20              25              30
His Phe His His Leu Pro Ser Gly Thr Gln His Ser Leu Val Phe Val
              35              40              45
Leu Ser Leu Thr Leu His Ser Gln Leu Ser Leu Leu Met Gly Thr Ser
              50              55              60
Ala Val Cys Leu Ser Ala Cys Phe Ser Ser Leu Ser Thr Phe Pro Gly
65              70              75              80
Trp Leu Leu Ile Ile Cys Thr Leu Met Ile *
              85              90

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<210> 372
<211> 45
<212> PRT
<213> Homo sapiens

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<400> 372

```

Met Gln Ser Arg Leu Val Phe Ser Ser Gln Ala Val Ala Phe Ser Ile
 1 5 10 15
 His Lys Asn Lys Val Glu Arg Arg Pro Gly Gln Gln Ala Gln Ala Leu
 20 25 30
 Gly Leu Leu Lys Ile Ile Leu Phe Ser Val Phe Pro *
 35 40 44

<210> 373
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 373
 Met Leu Ser Leu Val Lys Leu Leu Leu Leu Cys Ile Ile His Asp His
 1 5 10 15
 Ser Ile Asn Phe Cys Ile Ala Ile Gln Val Gly Leu Leu Pro Ser Ala
 20 25 30
 Tyr Arg Val Pro Gly Ile Val Leu Ser Leu Glu Asn Thr Ala Leu Ile
 35 40 45
 Arg Gln Thr Pro Cys Ser Asn Arg Ala Asn *
 50 55 58

<210> 374
 <211> 188
 <212> PRT
 <213> Homo sapiens

<400> 374
 Met Arg Pro Leu Ala Gly Ala Pro Val Pro Lys Arg Gln Lys Cys Asp
 1 5 10 15
 His Trp Thr Pro Cys Pro Ser Asp Thr Tyr Ala Tyr Arg Leu Leu Ser
 20 25 30
 Gly Gly Gly Arg Ser Lys Tyr Ala Lys Ile Cys Phe Glu Asp Asn Leu
 35 40 45
 Leu Met Gly Glu Gln Leu Gly Asn Val Ala Arg Gly Ile Asn Ile Ala
 50 55 60
 Ile Val Asn Tyr Val Thr Gly Asn Val Thr Ala Thr Arg Cys Phe Asp
 65 70 75 80
 Met Tyr Glu Gly Asp Asn Ser Gly Pro Met Thr Lys Phe Ile Gln Ser
 85 90 95
 Ala Ala Pro Lys Ser Leu Leu Phe Met Val Thr Tyr Asp Asp Gly Ser
 100 105 110
 Thr Arg Leu Asn Asn Asp Ala Lys Asn Ala Ile Glu Ala Leu Gly Ser
 115 120 125
 Lys Glu Ile Arg Asn Met Lys Phe Arg Ser Ser Trp Val Phe Ile Ala
 130 135 140
 Ala Lys Gly Leu Glu Leu Pro Ser Glu Ile Gln Arg Glu Lys Ile Asn
 145 150 155 160
 His Ser Asp Ala Lys Asn Asn Arg Tyr Ser Gly Trp Pro Ala Glu Ile
 165 170 175
 Gln Ile Glu Gly Cys Ile Pro Lys Glu Arg Ser *
 180 185 187

<210> 375
 <211> 424
 <212> PRT

<213> Homo sapiens

<400> 375

```

Met Glu Asp Lys Arg Ser Leu Ser Met Ala Arg Cys Glu Glu Arg Asn
 1          5          10          15
Ser Arg Gly Gln Asp His Gly Leu Glu Arg Val Pro Phe Pro Pro Gln
          20          25          30
Leu Gln Ser Glu Thr Tyr Leu His Pro Ala Asp Pro Ser Pro Ala Trp
          35          40          45
Asp Asp Pro Gly Ser Thr Gly Ser Pro Asn Leu Arg Leu Leu Thr Glu
          50          55          60
Glu Ile Ala Phe Gln Pro Leu Ala Glu Glu Ala Ser Phe Arg Arg Pro
          65          70          75          80
His Pro Asp Gly Asp Val Pro Pro Gln Gly Glu Asp Asn Leu Leu Ser
          85          90          95
Leu Pro Phe Pro Gln Lys Leu Trp Arg Leu Val Ser Ser Asn Gln Phe
          100          105          110
Ser Ser Ile Trp Trp Asp Asp Ser Gly Ala Cys Arg Val Ile Asn Gln
          115          120          125
Lys Leu Phe Glu Lys Glu Ile Leu Lys Arg Asp Val Ala His Lys Val
          130          135          140
Phe Ala Thr Thr Ser Ile Lys Ser Phe Phe Arg Gln Leu Asn Leu Tyr
          145          150          155          160
Gly Phe Arg Lys Arg Arg Gln Cys Thr Phe Arg Thr Phe Thr Arg Ile
          165          170          175
Phe Ser Ala Lys Arg Leu Val Ser Ile Leu Asn Lys Leu Glu Phe Tyr
          180          185          190
Cys His Pro Tyr Phe Gln Arg Asp Ser Pro His Leu Leu Val Arg Met
          195          200          205
Lys Arg Arg Val Gly Val Lys Ser Ala Pro Arg His Gln Glu Glu Asp
          210          215          220
Lys Pro Glu Ala Ala Gly Ser Cys Leu Ala Pro Ala Asp Thr Glu Gln
          225          230          235          240
Gln Asp His Thr Ser Pro Asn Glu Asn Asp Gln Val Thr Pro Gln His
          245          250          255
Arg Glu Pro Ala Gly Pro Asn Thr Gln Ile Arg Ser Gly Ser Ala Pro
          260          265          270
Pro Ala Thr Pro Val Met Val Pro Asp Ser Ala Val Ala Ser Asp Asn
          275          280          285
Ser Pro Val Thr Gln Pro Ala Gly Glu Trp Ser Glu Gly Ser Gln Ala
          290          295          300
His Val Thr Pro Val Ala Ala Val Pro Gly Pro Ala Ala Leu Pro Phe
          305          310          315          320
Leu Tyr Val Pro Gly Ser Pro Thr Gln Met Asn Ser Tyr Gly Pro Val
          325          330          335
Val Ala Leu Pro Thr Ala Ser Arg Ser Thr Leu Ala Met Asp Thr Thr
          340          345          350
Gly Leu Pro Ala Pro Gly Met Leu Pro Phe Cys His Leu Trp Val Pro
          355          360          365
Val Thr Leu Val Ala Ala Gly Ala Ala Gln Pro Ala Ala Ser Met Val
          370          375          380
Met Phe Pro His Leu Pro Ala Leu His His His Cys Pro His Ser His
          385          390          395          400
Arg Thr Ser Gln Tyr Met Pro Ala Ser Asp Gly Pro Gln Ala Tyr Pro
          405          410          415
Asp Tyr Ala Asp Gln Ser Thr *
          420          423

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<210> 376

<211> 145

<212> PRT

<213> Homo sapiens

<400> 376

```

Met Pro Gly Val Gly Leu Leu Val Ser His Phe Ser Thr Leu Val Ser
 1           5           10           15
Arg Gln Arg Cys Pro Asn Tyr Ala Asp Pro Gln Asn Leu Thr Asp Val
           20           25           30
Ser Ile Phe Leu Leu Leu Glu Val Ser Gly Asp Pro Glu Leu Gln Pro
           35           40           45
Val Leu Ala Gly Leu Phe Leu Ser Met Cys Leu Val Thr Val Leu Gly
           50           55           60
Asn Leu Leu Ile Ile Leu Ala Ile Ser Pro Asp Ser His Leu His Thr
65           70           75           80
Pro Met Tyr Phe Phe Leu Ser Asn Leu Ser Leu Pro Asp Ile Gly Phe
           85           90           95
Thr Ser Thr Thr Val Pro Lys Met Ile Val Asp Ile Gln Ser His Ser
           100          105          110
Arg Val Ile Ser Tyr Ala Gly Cys Leu Thr Gln Met Ser Leu Phe Ala
           115          120          125
Ile Phe Gly Gly Met Glu Glu Arg His Ala Pro Glu Cys Asp Gly Leu
130           135           140           144
*
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<210> 377

<211> 407

<212> PRT

<213> Homo sapiens

<400> 377

```

Met Leu Leu Leu Leu Leu Leu Leu Pro Leu Leu Trp Gly Thr Lys Gly
 1           5           10           15
Met Glu Gly Asp Arg Gln Tyr Gly Asp Gly Tyr Leu Leu Gln Val Gln
           20           25           30
Glu Leu Val Thr Val Gln Glu Gly Leu Cys Val His Val Pro Cys Ser
           35           40           45
Phe Ser Tyr Pro Gln Asp Gly Trp Thr Asp Ser Asp Pro Val His Gly
           50           55           60
Tyr Trp Phe Arg Ala Gly Asp Arg Pro Tyr Gln Asp Ala Pro Val Ala
65           70           75           80
Thr Asn Asn Pro Asp Arg Glu Val Gln Ala Glu Thr Gln Gly Arg Phe
           85           90           95
Gln Leu Leu Gly Asp Ile Trp Ser Asn Asp Cys Ser Leu Ser Ile Arg
           100          105          110
Asp Ala Arg Lys Arg Asp Lys Gly Ser Tyr Phe Phe Arg Leu Glu Arg
           115          120          125
Gly Ser Met Lys Trp Ser Tyr Lys Ser Gln Leu Asn Tyr Lys Thr Lys
130           135          140
Gln Leu Ser Val Phe Val Thr Asp Pro Pro Trp Asn Leu Thr Met Thr
145           150          155          160
Val Phe Gln Gly Asp Ala Thr Ala Ser Thr Ala Leu Gly Asn Gly Ser
           165          170          175
Ser Leu Ser Val Leu Glu Gly Gln Ser Leu Arg Leu Val Cys Ala Val
           180          185          190
Asn Ser Asn Pro Pro Ala Arg Leu Ser Trp Thr Arg Gly Ser Leu Thr
           195          200          205
Leu Cys Pro Ser Arg Ser Ser Asn Pro Gly Leu Leu Glu Leu Pro Arg
210           215          220
Val His Val Arg Asp Glu Gly Glu Phe Thr Cys Arg Ala Gln Asn Ala
225           230          235          240
```

Gln Gly Ser Gln His Ile Ser Leu Ser Leu Ser Leu Gln Asn Glu Gly
 245 250 255
 Thr Gly Thr Ser Arg Pro Val Ser Gln Val Thr Leu Ala Ala Val Gly
 260 265 270
 Gly Ala Gly Ala Thr Ala Leu Ala Phe Leu Ser Phe Cys Ile Ile Phe
 275 280 285
 Ile Ile Val Arg Ser Cys Arg Lys Lys Ser Ala Arg Pro Ala Ala Gly
 290 295 300
 Val Gly Asp Thr Gly Met Glu Asp Ala Lys Ala Ile Arg Gly Ser Ala
 305 310 315 320
 Ser Gln Gly Pro Leu Thr Glu Ser Trp Lys Asp Gly Asn Pro Leu Lys
 325 330 335
 Lys Pro Pro Pro Ala Val Ala Pro Ser Ser Gly Glu Glu Gly Glu Leu
 340 345 350
 His Tyr Ala Thr Leu Ser Phe His Lys Val Lys Pro Gln Asp Pro Gln
 355 360 365
 Gly Gln Glu Ala Thr Asp Ser Glu Tyr Ser Glu Ile Lys Ile His Lys
 370 375 380
 Arg Glu Thr Ala Glu Thr Gln Ala Cys Leu Arg Asn His Asn Pro Ser
 385 390 395 400
 Ser Lys Glu Val Arg Gly *
 405 406

<210> 378
 <211> 73
 <212> PRT
 <213> Homo sapiens

<400> 378
 Met Tyr Tyr Thr Leu Cys Asn Phe Val Phe Phe Thr Leu His Met Ile
 1 5 10 15
 Leu Phe Pro Lys Ser Leu Asn Ile Leu Leu Ser Asn Gln Ile Arg Ser
 20 25 30
 Ala Ile Val His Leu Lys Gln Arg Thr Ser Cys Ile Lys Asn Gln Pro
 35 40 45
 Glu Pro Tyr Gln Arg Ala Asp Ala Met Asn Thr Asn His Ser Leu Val
 50 55 60
 Ala Val Pro Tyr Val Asn Leu Ile *
 65 70 72

<210> 379
 <211> 74
 <212> PRT
 <213> Homo sapiens

<400> 379
 Met Phe Trp Met Val Lys Ile Leu Thr Pro Lys Ala Ser Thr Phe Gln
 1 5 10 15
 Val Thr Thr Ser Val Ser Val Pro Leu Thr Ser Ala Thr Gly Ala Ala
 20 25 30
 Cys Ser Gly Ser Cys Phe His Ser Thr Gly Cys Ala Gly Arg Pro Gln
 35 40 45
 Thr His Ala Gly Ala Pro Cys Ala Ser Glu Gln Asn Ser Arg Asn Glu
 50 55 60
 Val Met Gln Thr Ser Thr Asn Glu Met *
 65 70 73

<210> 380
 <211> 93
 <212> PRT
 <213> Homo sapiens

<400> 380
 Met His Cys Arg Gln Leu Lys Glu Val Leu Gln Leu Pro Leu Thr Cys
 1 5 10 15
 Ser Ser Cys Cys Val Cys Thr Met Thr Val Ala Phe Pro Ser Val Gln
 20 25 30
 Gln Val Trp Met Glu Thr Val Leu Thr Leu Gly Gly Leu Asp Ala Ala
 35 40 45
 Gln Asp Glu Ile Gln Ala Val Arg Leu Ile Leu Leu Pro Glu Ser Ser
 50 55 60
 Pro Gln Gly Pro His Gly Asn Leu Ala Pro Cys Ser Ala Lys Pro Phe
 65 70 75 80
 Phe Leu Pro Gln Val Met Pro Leu Gly Thr Ala Pro *

<210> 381
 <211> 267
 <212> PRT
 <213> Homo sapiens

<400> 381
 Met Val Cys Leu Arg Leu Pro Gly Gly Ser Cys Met Ala Val Leu Thr
 1 5 10 15
 Val Thr Leu Met Val Leu Ser Ser Pro Leu Ala Leu Ala Gly Asp Thr
 20 25 30
 Arg Pro Arg Phe Leu Glu Tyr Ser Thr Ser Glu Cys His Phe Phe Asn
 35 40 45
 Gly Thr Glu Arg Val Arg Phe Leu Asp Arg Tyr Phe Tyr Asn Gln Glu
 50 55 60
 Glu Tyr Val Arg Phe Asp Ser Asp Val Gly Glu Phe Arg Ala Val Thr
 65 70 75 80
 Glu Leu Gly Arg Pro Asp Ala Glu Tyr Trp Asn Ser Gln Lys Asp Leu
 85 90 95
 Leu Glu Gln Lys Arg Gly Arg Val Asp Asn Tyr Cys Arg His Asn Tyr
 100 105 110
 Gly Val Val Glu Ser Phe Thr Val Gln Arg Arg Val His Pro Lys Val
 115 120 125
 Thr Val Tyr Pro Ser Lys Thr Gln Pro Leu Gln His His Asn Leu Leu
 130 135 140
 Val Cys Ser Val Ser Gly Phe Tyr Pro Gly Ser Ile Glu Val Arg Trp
 145 150 155 160
 Phe Arg Asn Gly Gln Glu Glu Lys Thr Gly Val Val Ser Thr Gly Leu
 165 170 175
 Ile His Asn Gly Asp Trp Thr Phe Gln Thr Leu Val Met Leu Glu Thr
 180 185 190
 Val Pro Arg Ser Gly Glu Val Tyr Thr Cys Gln Val Glu His Pro Ser
 195 200 205
 Val Thr Ser Pro Leu Thr Val Glu Trp Arg Ala Arg Ser Glu Ser Ala
 210 215 220
 Gln Ser Lys Met Leu Ser Gly Val Gly Gly Phe Val Leu Gly Leu Leu
 225 230 235 240
 Phe Leu Gly Ala Gly Leu Phe Ile Tyr Phe Arg Asn Gln Lys Gly His
 245 250 255
 Ser Gly Leu Gln Pro Arg Gly Phe Leu Ser *

<210> 382
 <211> 326
 <212> PRT
 <213> Homo sapiens

<400> 382
 Met Met Ser Pro Ser Gln Ala Ser Leu Leu Phe Leu Asn Val Cys Ile
 1 5 10 15
 Phe Ile Cys Gly Glu Val Val Gln Gly Asn Cys Val His His Ser Thr
 20 25 30
 Asp Ser Ser Val Val Asn Ile Val Glu Asp Gly Ser Asn Ala Lys Asp
 35 40 45
 Glu Ser Lys Ser Asn Asp Thr Val Cys Lys Glu Asp Cys Glu Glu Ser
 50 55 60
 Cys Asp Val Lys Thr Lys Ile Thr Arg Glu Glu Lys His Phe Met Cys
 65 70 75 80
 Arg Asn Leu Gln Asn Ser Ile Val Ser Tyr Thr Arg Ser Thr Lys Lys
 85 90 95
 Leu Leu Arg Asn Met Met Asp Glu Gln Gln Ala Ser Leu Asp Tyr Leu
 100 105 110
 Ser Asn Gln Val Asn Glu Leu Met Asn Arg Val Leu Leu Leu Thr Thr
 115 120 125
 Glu Val Phe Arg Lys Gln Leu Asp Pro Phe Pro His Arg Pro Val Gln
 130 135 140
 Ser His Gly Leu Asp Cys Thr Asp Ile Lys Asp Thr Ile Gly Ser Val
 145 150 155 160
 Thr Lys Thr Pro Ser Gly Leu Tyr Ile Ile His Pro Glu Gly Ser Ser
 165 170 175
 Tyr Pro Phe Glu Val Met Cys Asp Met Asp Tyr Arg Gly Gly Gly Trp
 180 185 190
 Thr Val Ile Gln Lys Arg Ile Asp Gly Ile Ile Asp Phe Gln Arg Leu
 195 200 205
 Trp Cys Asp Tyr Leu Asp Gly Phe Gly Asp Leu Leu Gly Asp Ala Phe
 210 215 220
 Arg Gly Leu Lys Lys Glu Asp Asn Gln Asn Ala Met Pro Phe Ser Thr
 225 230 235 240
 Ser Asp Val Asp Asn Asp Gly Cys Arg Pro Ala Cys Leu Val Asn Gly
 245 250 255
 Gln Ser Val Lys Ser Cys Ser His Leu His Asn Lys Thr Gly Trp Trp
 260 265 270
 Phe Asn Glu Cys Gly Leu Ala Asn Leu Asn Gly Ile His His Phe Ser
 275 280 285
 Gly Lys Leu Leu Ala Thr Gly Ile Gln Trp Gly Thr Trp Thr Lys Asn
 290 295 300
 Asn Ser Pro Val Lys Ile Lys Ser Val Ser Met Lys Ile Arg Arg Met
 305 310 315 320
 Tyr Asn Pro Tyr Phe Lys
 325 326

<210> 383
 <211> 71
 <212> PRT
 <213> Homo sapiens

<400> 383
 Met Arg Thr Trp Ser Lys Val Ile Pro Ser Leu Trp Leu Lys Phe Ser
 1 5 10 15

Arg Gly Phe Ile Ile Leu Arg Phe His Phe Leu Met Ile Ile Trp Pro
 20 25 30
 Asp Ile Pro Ser Ser Met Tyr Ile Cys Met Ser Phe Ile Thr Ala Phe
 35 40 45
 Lys Asn Leu Phe Met Phe Gly Ile Asn Arg Ile Lys Lys Ile Ser Val
 50 55 60
 Val Ser Arg Asn Thr Leu *
 65 70

<210> 384

<211> 405

<212> PRT

<213> Homo sapiens

<400> 384

Met Ala Ser Ser Gly Pro Ala Met Leu Arg Gly Pro Trp Arg Phe Phe
 1 5 10 15
 Trp Leu Phe Leu Leu Leu Leu Leu Pro Gly Ala Pro Asp Pro Arg Val
 20 25 30
 Arg Ser Arg Pro Trp Glu Gly Thr Asp Glu Pro Gly Ser Ala Trp Ala
 35 40 45
 Trp Pro Gly Phe Gln Arg Leu Gln Glu Gln Leu Arg Ala Ala Gly Ala
 50 55 60
 Leu Ser Lys Arg Tyr Trp Thr Leu Phe Ser Cys Gln Val Trp Pro Asp
 65 70 75 80
 Asp Cys Asp Glu Asp Glu Glu Ala Ala Thr Gly Pro Leu Gly Trp Arg
 85 90 95
 Leu Pro Leu Leu Gly Gln Arg Tyr Leu Asp Leu Leu Thr Thr Trp Tyr
 100 105 110
 Cys Ser Phe Lys Asp Cys Cys Pro Arg Gly Asp Cys Arg Ile Ser Asn
 115 120 125
 Asn Phe Thr Gly Leu Glu Trp Asp Leu Asn Val Arg Leu His Gly Gln
 130 135 140
 His Leu Val Gln Gln Leu Val Leu Arg Thr Val Arg Gly Tyr Leu Glu
 145 150 155 160
 Thr Pro Gln Pro Glu Lys Ala Leu Ala Leu Ser Phe His Gly Trp Ser
 165 170 175
 Gly Thr Gly Lys Asn Phe Val Ala Arg Met Leu Val Glu Asn Leu Tyr
 180 185 190
 Arg Asp Gly Leu Met Ser Asp Cys Val Arg Met Phe Ile Ala Thr Phe
 195 200 205
 His Phe Pro His Pro Lys Tyr Val Asp Leu Tyr Lys Glu Gln Leu Met
 210 215 220
 Ser Gln Ile Arg Glu Thr Gln Gln Leu Cys His Gln Thr Leu Phe Ile
 225 230 235 240
 Phe Asp Glu Ala Glu Lys Leu His Pro Gly Leu Leu Glu Val Leu Gly
 245 250 255
 Pro His Leu Glu Arg Arg Ala Pro Glu Gly His Arg Ala Glu Ser Pro
 260 265 270
 Trp Thr Ile Phe Leu Phe Leu Ser Asn Leu Arg Gly Asp Ile Ile Asn
 275 280 285
 Glu Val Val Leu Lys Leu Leu Lys Ala Gly Trp Ser Arg Glu Glu Ile
 290 295 300
 Thr Met Glu His Leu Glu Pro His Leu Gln Ala Glu Ile Val Glu Thr
 305 310 315 320
 Ile Asp Asn Gly Phe Gly His Ser Arg Leu Val Lys Glu Asn Leu Ile
 325 330 335
 Asp Tyr Phe Ile Pro Phe Leu Pro Leu Glu Tyr Arg His Val Arg Leu
 340 345 350
 Cys Ala Arg Asp Ala Phe Leu Ser Gln Glu Leu Leu Tyr Lys Glu Glu
 355 360 365

Thr Leu Asp Glu Ile Ala Gln Met Met Val Tyr Val Pro Lys Glu Glu
 370 375 380
 Gln Leu Phe Ser Ser Gln Gly Cys Lys Ser Ile Ser Gln Arg Ile Asn
 385 390 395 400
 Tyr Phe Leu Ser *
 404

<210> 385
 <211> 39
 <212> PRT
 <213> Homo sapiens

<400> 385
 Met Leu Ala Met Glu Val Arg Lys Ile Lys Val Thr Lys Asn Lys Lys
 1 5 10 15
 Arg Glu Lys Met Leu Leu Leu Phe Met Glu Glu Lys Gly Lys Tyr Phe
 20 25 30
 Lys Leu Thr Val Asn Phe *
 35 38

<210> 386
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 386
 Met Leu Cys Ser Leu Phe His Ile Leu Ile Val Thr Leu Leu Leu Ala
 1 5 10 15
 Ile Ser Phe Gly Met Ser Ser Arg Asn Thr Leu Asn Met Val Asn Ser
 20 25 30
 Lys Ile Lys Glu His Ser Leu His Arg Lys Leu Glu Ile *
 35 40 45

<210> 387
 <211> 70
 <212> PRT
 <213> Homo sapiens

<400> 387
 Met Phe Trp Thr Leu Val Gln Gly Met Ser Leu Leu Cys Leu Thr Asp
 1 5 10 15
 Val Phe Gln Ala Leu Pro Ser Ile Cys Ile Ala Asn Ser Glu Ile Tyr
 20 25 30
 Tyr Thr Val Leu Thr Leu Met Gln Phe Ser Cys Leu Trp Met Val Leu
 35 40 45
 Ser Gly Lys Lys Val Ile Phe Ser Ser Glu Leu Met Val Arg Lys Gly
 50 55 60
 Arg Arg Ser Trp Lys *
 65 69

<210> 388
 <211> 48
 <212> PRT

<213> Homo sapiens

<400> 388

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Met Tyr Leu Lys Pro Leu Ile Tyr Phe Ser Ile Leu Ile Phe Leu Ser
 1           5           10           15
Gln Arg Ser Lys Leu Ser Leu Pro Tyr Asn Val His Asn Cys Met Asn
           20           25           30
Ile Gly Glu Asp Arg Arg Pro Gln Lys Val Gln Leu Leu Gln Leu Tyr
      35           40           45           48

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<210> 389

<211> 50

<212> PRT

<213> Homo sapiens

<400> 389

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Met Leu Pro Leu Ala Leu Ile Val Asp Leu Ile Tyr Pro Trp Val Gln
 1           5           10           15
Val Arg Gly Pro Glu Asp Pro Asn His Gly Thr Thr Glu Arg Lys Arg
           20           25           30
Glu Glu Val Thr Cys Leu Gly Ala Ala Arg Leu Ser Leu Glu Ala Ala
      35           40           45
Arg *
 49

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<210> 390

<211> 237

<212> PRT

<213> Homo sapiens

<400> 390

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Met Thr Ala Glu Phe Leu Ser Leu Leu Cys Leu Gly Leu Cys Leu Gly
 1           5           10           15
Tyr Glu Asp Glu Lys Lys Asn Glu Lys Pro Pro Lys Pro Ser Leu His
           20           25           30
Ala Trp Pro Ser Ser Val Val Glu Ala Glu Ser Asn Val Thr Leu Lys
      35           40           45
Cys Gln Ala His Ser Gln Asn Val Thr Phe Val Leu Arg Lys Val Asn
      50           55           60
Asp Ser Gly Tyr Lys Gln Glu Gln Ser Ser Ala Glu Asn Glu Ala Glu
      65           70           75           80
Phe Pro Phe Thr Asp Leu Lys Pro Lys Asp Ala Gly Arg Tyr Phe Cys
           85           90           95
Ala Tyr Lys Thr Thr Ala Ser His Glu Trp Ser Glu Ser Ser Glu His
           100          105          110
Leu Gln Leu Val Val Thr Asp Lys His Asp Glu Leu Glu Ala Pro Ser
           115          120          125
Met Lys Thr Asp Thr Arg Thr Ile Phe Val Ala Ile Phe Ser Cys Ile
           130          135          140
Ser Ile Leu Leu Leu Phe Leu Ser Val Phe Ile Tyr Arg Cys Ser
           145          150          155          160
Gln His Ser Ser Ser Ser Glu Glu Ser Thr Lys Arg Thr Ser His Ser
           165          170          175
Lys Leu Pro Glu Gln Glu Ala Ala Glu Ala Asp Leu Ser Asn Met Glu
           180          185          190

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Arg Val Ser Leu Ser Thr Ala Asp Pro Gln Gly Val Thr Tyr Ala Glu
 195 200 205
 Leu Ser Thr Ser Ala Leu Phe Glu Ala Ala Ser Asp Pro Thr Gln Glu
 210 215 220
 Pro Pro Gly Phe His Glu Tyr Ala Ala Leu Lys Val *
 225 230 235 236

<210> 391
 <211> 305
 <212> PRT
 <213> Homo sapiens

<400> 391
 Met Pro Leu Leu Thr Leu Tyr Leu Leu Leu Phe Trp Leu Ser Gly Tyr
 1 5 10 15
 Ser Ile Val Thr Gln Ile Thr Gly Pro Thr Thr Val Asn Gly Leu Glu
 20 25 30
 Arg Gly Ser Leu Thr Val Gln Cys Val Tyr Arg Ser Gly Trp Glu Thr
 35 40 45
 Tyr Leu Lys Trp Trp Cys Arg Gly Ala Ile Trp Arg Asp Cys Lys Ile
 50 55 60
 Leu Val Lys Thr Ser Gly Ser Glu Gln Glu Val Lys Arg Asp Arg Val
 65 70 75 80
 Ser Ile Lys Asp Asn Gln Lys Asn Arg Thr Phe Thr Val Thr Met Glu
 85 90 95
 Asp Leu Met Lys Thr Asp Ala Asp Thr Tyr Trp Cys Gly Ile Glu Lys
 100 105 110
 Thr Gly Asn Asp Leu Gly Val Thr Val Gln Val Thr Ile Asp Pro Ala
 115 120 125
 Ser Thr Pro Ala Pro Thr Thr Pro Thr Ser Thr Thr Phe Thr Ala Pro
 130 135 140
 Val Thr Gln Glu Glu Thr Ser Ser Ser Pro Thr Leu Thr Gly His His
 145 150 155 160
 Leu Asp Asn Arg His Lys Leu Leu Lys Leu Ser Val Leu Leu Pro Leu
 165 170 175
 Ile Phe Thr Ile Leu Leu Leu Leu Val Ala Ala Ser Leu Leu Ala
 180 185 190
 Trp Arg Met Met Lys Tyr Gln Gln Lys Ala Ala Gly Met Ser Pro Glu
 195 200 205
 Gln Val Leu Gln Pro Leu Glu Gly Asp Leu Cys Tyr Ala Asp Leu Thr
 210 215 220
 Leu Gln Leu Ala Gly Thr Ser Pro Arg Lys Ala Thr Thr Lys Leu Ser
 225 230 235 240
 Ser Ala Gln Val Asp Gln Val Glu Val Glu Tyr Val Thr Met Ala Ser
 245 250 255
 Leu Pro Lys Glu Asp Ile Ser Tyr Ala Ser Leu Thr Leu Gly Ala Glu
 260 265 270
 Asp Gln Glu Pro Thr Tyr Cys Asn Met Gly His Leu Ser Ser His Leu
 275 280 285
 Pro Gly Arg Gly Pro Glu Glu Pro Thr Glu Tyr Ser Thr Ile Ser Arg
 290 295 300
 Pro
 305

<210> 392
 <211> 124
 <212> PRT
 <213> Homo sapiens

<400> 392
 Met Arg Ile Ser Cys Pro Trp Cys Leu Trp Asn Leu Ser Leu Glu Val
 1 5 10 15
 Gly Gly Thr Val Ala Thr Thr Ala Gln Gln His Ile Ala Glu Val Cys
 20 25 30
 Arg Ser Ser Gln Ala Gly Arg Gly Phe Leu His Cys Leu His Pro Ala
 35 40 45
 Leu Gly Thr Ser Gly Cys His Pro Val Pro Cys Ser Ser Ser Leu Val
 50 55 60
 Gly Phe Gly Trp Arg Gly Tyr Ser Gly Glu Ala Ser Trp Gly Arg Ala
 65 70 75 80
 Ser Ser Arg Pro Ala Ala Pro Thr Pro Pro Met Pro Ala Asn Val Gln
 85 90 95
 Ala Gly Trp Glu Gln Ser Val Arg Leu Leu Cys His Ser Trp Leu Arg
 100 105 110
 Leu Ala Ala Leu His Val Thr His Glu Glu Ser *
 115 120 123

<210> 393
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 393
 Met Ser Gln Gln Ser Trp Phe Thr Val Tyr Leu Phe Tyr Leu Leu Arg
 1 5 10 15
 Ser Asn Ile Trp Leu Glu Met Gly Ile Pro Lys Tyr Val Lys Glu Val
 20 25 30
 Glu Leu Arg Ser Leu Asp Phe Thr Ser Asn Tyr Phe Ser *
 35 40 45

<210> 394
 <211> 237
 <212> PRT
 <213> Homo sapiens

<400> 394
 Met Glu Phe Gly Leu Ser Cys Ile Phe Leu Ala Ala Ile Leu Lys Gly
 1 5 10 15
 Val Gln Cys Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys
 20 25 30
 Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Phe
 35 40 45
 Ser Lys Ala Tyr Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
 50 55 60
 Glu Trp Val Gly Arg Ile Lys Thr Lys Lys Asp Ala Gly Thr Thr Asp
 65 70 75 80
 Tyr Ala Ala Pro Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser
 85 90 95
 Glu Asn Thr Leu His Leu Gln Leu Asn Ser Leu Lys Thr Glu Asp Thr
 100 105 110
 Gly Ile Tyr Cys Cys Thr Asp Pro Thr Trp Tyr Ala Ala Val Gly
 115 120 125
 Gly Ser Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser
 130 135 140
 Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr
 145 150 155 160

Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro
 165 170 175
 Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val
 180 185 190
 His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser
 195 200 205
 Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile
 210 215 220
 Cys Asn Val Asn His Lys Pro Val Leu Arg Ala Leu *
 225 230 235 236

<210> 395
 <211> 478
 <212> PRT
 <213> Homo sapiens

<400> 395
 Met Glu Phe Gly Leu Ser Trp Val Phe Leu Val Ala Leu Leu Arg Gly
 1 5 10 15
 Val Gln Cys Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln
 20 25 30
 Pro Gly Arg Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
 35 40 45
 Ser Asn Tyr Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
 50 55 60
 Glu Trp Val Ala Ala Ile Trp Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala
 65 70 75 80
 Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn
 85 90 95
 Thr Leu Tyr Met Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val
 100 105 110
 Tyr Tyr Cys Ala Arg Glu Gly Arg Trp Val Arg Tyr Thr Thr Val Thr
 115 120 125
 Thr Ile Gly Tyr Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr
 130 135 140
 Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro
 145 150 155 160
 Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val
 165 170 175
 Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala
 180 185 190
 Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly
 195 200 205
 Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly
 210 215 220
 Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys
 225 230 235 240
 Val Asp Lys Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys
 245 250 255
 Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu
 260 265 270
 Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu
 275 280 285
 Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys
 290 295 300
 Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys
 305 310 315 320
 Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu
 325 330 335
 Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys
 340 345 350

Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys
 355 360 365
 Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser
 370 375 380
 Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys
 385 390 395 400
 Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln
 405 410 415
 Pro Glu Asn Asn Tyr Lys Thr Thr Pro Val Leu Asp Ser Asp Gly
 420 425 430
 Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln
 435 440 445
 Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn
 450 455 460
 His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys *
 465 470 475 477

<210> 396
 <211> 292
 <212> PRT
 <213> Homo sapiens

<400> 396
 Met Ala Met Leu Leu Gly Ala Ser Val Leu Ile Leu Trp Leu Gln Pro
 1 5 10 15
 Asp Trp Val Asn Ser Gln Gln Lys Asn Asp Asp Gln Gln Val Lys Gln
 20 25 30
 Asn Ser Pro Ser Leu Ser Val Gln Glu Gly Arg Ile Ser Ile Leu Asn
 35 40 45
 Cys Asp Tyr Thr Asn Ser Met Phe Asp Tyr Phe Leu Trp Tyr Lys Lys
 50 55 60
 Tyr Pro Ala Glu Gly Pro Thr Phe Leu Ile Ser Ile Ser Ser Ile Lys
 65 70 75 80
 Asp Lys Asn Glu Asp Gly Arg Phe Thr Val Phe Leu Asn Lys Ser Ala
 85 90 95
 Lys Gln Phe Ser Leu His Ile Val Pro Ser Gln Pro Gly Asp Ser Ala
 100 105 110
 Val Tyr Phe Cys Ala Ala Ser Ser Phe Ser Tyr Ser Gly Gly Gly
 115 120 125
 Ala Asp Gly Leu Thr Phe Gly Lys Gly Thr His Leu Ile Ile Gln Pro
 130 135 140
 Tyr Ile Gln Asn Pro Asp Pro Ala Val Tyr Gln Leu Arg Asp Ser Lys
 145 150 155 160
 Ser Ser Asp Lys Ser Val Cys Leu Phe Thr Asp Phe Asp Ser Gln Thr
 165 170 175
 Asn Val Ser Gln Ser Lys Asp Ser Asp Val Tyr Ile Thr Asp Lys Thr
 180 185 190
 Val Leu Asp Met Arg Ser Met Asp Phe Lys Ser Asn Ser Ala Val Ala
 195 200 205
 Trp Ser Asn Lys Ser Asp Phe Ala Cys Ala Asn Ala Phe Asn Asn Ser
 210 215 220
 Ile Ile Pro Glu Asp Thr Phe Phe Pro Ser Pro Glu Ser Ser Cys Asp
 225 230 235 240
 Val Lys Leu Val Glu Lys Ser Phe Glu Thr Asp Thr Asn Leu Asn Phe
 245 250 255
 Gln Asn Leu Ser Val Ile Gly Phe Arg Ile Leu Leu Leu Lys Val Ala
 260 265 270
 Gly Phe Asn Leu Leu Met Thr Leu Arg Leu Trp Val Gln Leu Arg Ser
 275 280 285
 Ala Arg Leu *
 290 291

<210> 397
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 397
 Met Val Leu Arg Leu Pro Trp Trp Gly Val Leu Ala Tyr Gly Asn Asp
 1 5 10 15
 Val Gly Phe Gly Phe Tyr Ser Phe Leu Cys Tyr Gln Ile Asn Pro Pro
 20 25 30
 Thr Cys Pro Ile Leu Trp Leu Trp Glu Val Leu Thr Val Gly Lys Ser
 35 40 45 48

<210> 398
 <211> 370
 <212> PRT
 <213> Homo sapiens

<400> 398
 Met Ala Asp Ser Ala Gln Ala Gln Lys Leu Val Tyr Leu Val Thr Gly
 1 5 10 15
 Gly Cys Gly Phe Leu Gly Glu His Val Val Arg Met Leu Leu Gln Arg
 20 25 30
 Glu Pro Arg Leu Gly Glu Leu Arg Val Phe Asp Gln His Leu Gly Pro
 35 40 45
 Trp Leu Glu Glu Leu Lys Thr Gly Pro Val Arg Val Thr Ala Ile Gln
 50 55 60
 Gly Asp Val Thr Gln Ala His Glu Val Ala Ala Val Ala Gly Ala
 65 70 75 80
 His Val Val Ile His Thr Ala Gly Leu Val Asp Val Phe Gly Arg Ala
 85 90 95
 Ser Pro Lys Thr Ile His Glu Val Asn Val Gln Gly Thr Arg Asn Val
 100 105 110
 Ile Glu Ala Cys Val Gln Thr Gly Thr Arg Phe Leu Val Tyr Thr Ser
 115 120 125
 Ser Met Glu Val Val Gly Pro Asn Thr Lys Gly His Pro Phe Tyr Arg
 130 135 140
 Gly Asn Glu Asp Thr Pro Tyr Glu Ala Val His Arg His Pro Tyr Pro
 145 150 155 160
 Cys Ser Lys Ala Leu Ala Glu Trp Leu Val Leu Glu Ala Asn Gly Arg
 165 170 175
 Lys Val Arg Gly Gly Leu Pro Leu Val Thr Cys Ala Leu Arg Pro Thr
 180 185 190
 Gly Ile Tyr Gly Glu Gly His Gln Ile Met Arg Asp Phe Tyr Arg Gln
 195 200 205
 Gly Leu Arg Leu Gly Gly Trp Leu Phe Arg Ala Ile Pro Ala Ser Val
 210 215 220
 Glu His Gly Arg Val Tyr Val Gly Asn Val Ala Trp Met His Val Leu
 225 230 235 240
 Ala Ala Arg Glu Leu Glu Gln Arg Ala Ala Leu Met Gly Gly Gln Val
 245 250 255
 Tyr Phe Cys Tyr Asp Gly Ser Pro Tyr Arg Ser Tyr Glu Asp Phe Asn
 260 265 270
 Met Glu Phe Leu Gly Pro Cys Gly Leu Arg Leu Val Gly Ala Arg Pro
 275 280 285

Leu Leu Pro Tyr Trp Leu Leu Val Phe Leu Ala Ala Leu Asn Ala Leu
 290 295 300
 Leu Gln Trp Leu Leu Arg Pro Leu Val Leu Tyr Ala Pro Leu Leu Asn
 305 310 315 320
 Pro Tyr Thr Leu Ala Val Ala Asn Thr Thr Phe Thr Val Ser Thr Asp
 325 330 335
 Lys Ala Gln Arg His Phe Gly Tyr Glu Pro Leu Phe Ser Trp Glu Asp
 340 345 350
 Ser Arg Thr Arg Thr Ile Leu Trp Val Gln Ala Ala Thr Gly Ser Ala
 355 360 365
 Gln *
 369

<210> 399
 <211> 248
 <212> PRT
 <213> Homo sapiens

<400> 399
 Met Leu Gly Gly Lys Gly Leu Met Ser Val Arg Tyr Leu Glu Ile Phe
 1 5 10 15
 Phe Met Lys Pro Leu Pro Pro Asn Ile Lys Asp Arg Leu Ile Lys Ile
 20 25 30
 Met Ser Met Gln Gly Gln Ile Thr Asp Ser Asn Ile Ser Glu Ile Leu
 35 40 45
 His Pro Glu Val Gln Thr Leu Asp Leu Arg Ser Cys Asp Ile Ser Asp
 50 55 60
 Ala Ala Leu Leu His Leu Ser Asn Cys Arg Lys Leu Lys Lys Leu Asn
 65 70 75 80
 Leu Asn Ala Ser Lys Gly Asn Arg Val Ser Val Thr Ser Glu Gly Ile
 85 90 95
 Lys Ala Val Ala Ser Ser Cys Ser Tyr Leu His Glu Ala Ser Leu Lys
 100 105 110
 Arg Cys Cys Asn Leu Thr Asp Glu Gly Val Val Ala Leu Ala Leu Asn
 115 120 125
 Cys Gln Leu Leu Lys Ile Ile Asp Leu Gly Gly Cys Leu Ser Ile Thr
 130 135 140
 Asp Val Ser Leu His Ala Leu Gly Lys Asn Cys Pro Phe Leu Gln Cys
 145 150 155 160
 Val Asp Phe Ser Ala Thr Gln Val Ser Asp Ser Gly Val Ile Ala Leu
 165 170 175
 Val Ser Gly Pro Cys Ala Lys Lys Leu Glu Glu Ile His Met Gly His
 180 185 190
 Cys Val Asn Leu Thr Asp Gly Ala Val Glu Ala Val Leu Thr Tyr Cys
 195 200 205
 Pro Gln Ile Arg Ile Leu Leu Phe His Gly Cys Pro Leu Ile Thr Asp
 210 215 220
 His Ser Arg Glu Val Leu Glu Gln Leu Val Gly Pro Asn Lys Leu Lys
 225 230 235 240
 Gln Val Thr Trp Thr Val Tyr *
 245 247

<210> 400
 <211> 568
 <212> PRT
 <213> Homo sapiens

<400> 400

Met	Asp	Ser	Ile	Leu	Ile	Pro	Pro	Leu	Thr	Lys	Arg	Leu	Lys	Met	Gly
1				5					10					15	
Lys	Ser	Leu	Tyr	Leu	Ser	Val	Pro	Gln	Phe	Pro	Ala	Cys	Asn	Thr	Tyr
		20						25					30		
Ser	Cys	Ser	Leu	Asn	Leu	Arg	Asp	Ala	Asn	Glu	Ala	Asp	Thr	Gly	Thr
	35						40					45			
Tyr	Phe	Phe	Gln	Val	Glu	Arg	Gly	Tyr	Tyr	Met	Lys	Tyr	Ser	Tyr	Gly
	50					55					60				
Asn	Glu	Lys	Leu	Phe	Leu	His	Val	Thr	Arg	Pro	Pro	Leu	Ser	Leu	Glu
65					70					75					80
Pro	Ala	Val	Pro	Glu	Arg	Arg	Thr	Leu	Arg	Asn	Arg	Arg	Ser	Leu	Ala
				85					90					95	
Ala	Leu	Ala	Pro	Leu	Thr	Pro	Asp	Met	Leu	Leu	Leu	Leu	Leu	Pro	Leu
			100					105						110	
Leu	Trp	Gly	Arg	Glu	Arg	Ala	Glu	Gly	Gln	Thr	Ser	Lys	Leu	Leu	Thr
	115						120					125			
Met	Gln	Ser	Ser	Val	Thr	Val	Gln	Glu	Gly	Leu	Cys	Val	His	Val	Pro
130						135					140				
Cys	Ser	Phe	Ser	Tyr	Pro	Ser	His	Gly	Trp	Ile	Tyr	Pro	Gly	Pro	Val
145					150					155					160
Val	His	Gly	Tyr	Trp	Phe	Arg	Glu	Gly	Ala	Asn	Thr	Asp	Gln	Asp	Ala
				165					170					175	
Pro	Val	Ala	Thr	Asn	Asn	Pro	Ala	Arg	Ala	Val	Trp	Glu	Glu	Thr	Arg
				180				185						190	
Asp	Arg	Phe	His	Leu	Leu	Gly	Asp	Pro	His	Thr	Glu	Asn	Cys	Thr	Leu
	195						200					205			
Ser	Ile	Arg	Asp	Ala	Arg	Arg	Ser	Asp	Ala	Gly	Arg	Tyr	Phe	Phe	Arg
	210					215					220				
Met	Glu	Lys	Gly	Ser	Ile	Lys	Trp	Asn	Tyr	Lys	His	His	Arg	Leu	Ser
225					230					235					240
Val	Asn	Val	Thr	Ala	Leu	Thr	His	Arg	Pro	Asn	Ile	Leu	Ile	Pro	Gly
			245						250					255	
Thr	Leu	Glu	Ser	Gly	Cys	Pro	Gln	Asn	Leu	Thr	Cys	Ser	Val	Pro	Trp
		260						265					270		
Ala	Cys	Glu	Gln	Gly	Thr	Pro	Pro	Met	Ile	Ser	Trp	Ile	Gly	Thr	Ser
	275						280						285		
Val	Ser	Pro	Leu	Asp	Pro	Ser	Thr	Thr	Arg	Ser	Ser	Val	Leu	Thr	Leu
	290					295					300				
Ile	Pro	Gln	Pro	Gln	Asp	His	Gly	Thr	Ser	Leu	Thr	Cys	Gln	Val	Thr
305					310					315					320
Phe	Pro	Gly	Ala	Ser	Val	Thr	Thr	Asn	Lys	Thr	Val	His	Leu	Asn	Val
				325					330					335	
Ser	Tyr	Pro	Pro	Gln	Asn	Leu	Thr	Met	Thr	Val	Phe	Gln	Gly	Asp	Gly
		340						345					350		
Thr	Val	Ser	Thr	Val	Leu	Gly	Asn	Gly	Ser	Ser	Leu	Ser	Leu	Pro	Glu
	355						360					365			
Gly	Gln	Ser	Leu	Arg	Leu	Val	Cys	Ala	Val	Asp	Ala	Val	Asp	Ser	Asn
	370					375					380				
Pro	Pro	Ala	Arg	Leu	Ser	Leu	Ser	Trp	Arg	Gly	Leu	Thr	Leu	Cys	Pro
385				390						395					400
Ser	Gln	Pro	Ser	Asn	Pro	Gly	Val	Leu	Glu	Leu	Pro	Trp	Val	His	Leu
				405					410					415	
Arg	Asp	Glu	Ala	Glu	Phe	Thr	Cys	Arg	Ala	Gln	Asn	Pro	Leu	Gly	Ser
		420						425					430		
Gln	Gln	Val	Tyr	Leu	Asn	Val	Ser	Leu	Gln	Ser	Lys	Ala	Thr	Ser	Gly
		435				440						445			
Val	Thr	Gln	Gly	Val	Val	Gly	Gly	Ala	Gly	Ala	Thr	Ala	Leu	Val	Phe
	450					455					460				
Leu	Ser	Phe	Cys	Val	Ile	Phe	Val	Val	Val	Arg	Ser	Cys	Arg	Lys	Lys
465					470					475					480
Ser	Ala	Arg	Pro	Ala	Ala	Gly	Val	Gly	Asp	Thr	Gly	Ile	Glu	Asp	Ala
				485					490					495	
Asn	Ala	Val	Arg	Gly	Ser	Ala	Ser	Gln	Gly	Pro	Leu	Thr	Glu	Pro	Trp
			500					505					510		

Ala Glu Asp Ser Pro Pro Asp Gln Pro Pro Pro Ala Ser Ala Arg Ser
 515 520 525
 Ser Val Gly Glu Gly Glu Leu Gln Tyr Ala Ser Leu Ser Phe Gln Met
 530 535 540
 Val Lys Pro Trp Asp Ser Arg Gly Gln Glu Ala Thr Asp Thr Glu Tyr
 545 550 555 560
 Ser Glu Ile Lys Ile His Arg *
 565 567

<210> 401
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 401
 Met Leu Phe Gly Leu Ala Leu Gln Leu Ile Leu Asp Leu Lys Leu Thr
 1 5 10 15
 Thr Val Asn Gln Arg Glu Ser Asp Val Ala Arg Val Ala Thr Ala Glu
 20 25 30
 Glu Tyr Ser Lys Lys Gly Leu Leu Gly Gln Glu Thr Leu His Ala Gly
 35 40 45
 Ser Gln Thr Arg Met Gln Ile Leu Ile Ser *
 50 55 58

<210> 402
 <211> 71
 <212> PRT
 <213> Homo sapiens

<400> 402
 Met Leu Lys Leu Leu Cys Ala Ala Glu Val Thr Asn Val Leu Phe Asn
 1 5 10 15
 Cys Val Phe Asp Tyr Gly Cys Pro Lys Thr Phe Cys His Pro Trp Thr
 20 25 30
 Ile Phe Val Leu Phe Trp Ser Ser Leu Glu Gly Gly Phe Ile Ile Ser
 35 40 45
 Tyr Lys Thr Leu Thr Gly Ala Leu Glu Cys Arg Phe Leu Ile Thr Leu
 50 55 60
 Glu Ile Val Thr Ser Glu *
 65 70

<210> 403
 <211> 270
 <212> PRT
 <213> Homo sapiens

<400> 403
 Met Arg Ser Ser Leu Thr Met Val Gly Thr Leu Trp Ala Phe Leu Ser
 1 5 10 15
 Leu Val Thr Ala Val Thr Ser Ser Thr Ser Tyr Phe Leu Pro Tyr Trp
 20 25 30
 Leu Phe Gly Ser Gln Met Gly Lys Pro Val Ser Phe Ser Thr Phe Arg
 35 40 45
 Arg Cys Asn Tyr Pro Val Arg Gly Glu Gly His Ser Leu Ile Met Val
 50 55 60

```

Glu Glu Cys Gly Arg Tyr Ala Ser Phe Asn Ala Ile Pro Ser Leu Ala
 65          70          75          80
Trp Gln Met Cys Thr Val Val Thr Gly Ala Gly Cys Ala Leu Leu Leu
          85          90          95
Leu Val Ala Leu Ala Ala Val Leu Gly Cys Cys Met Glu Glu Leu Ile
          100          105          110
Ser Arg Met Met Gly Arg Cys Met Gly Ala Ala Gln Phe Val Gly Gly
          115          120          125
Leu Leu Ile Ser Ser Gly Cys Ala Leu Tyr Pro Leu Gly Trp Asn Ser
          130          135          140
Pro Glu Ile Met Gln Thr Cys Gly Asn Val Ser Asn Gln Phe Gln Leu
          145          150          155          160
Gly Thr Cys Arg Leu Gly Trp Ala Tyr Tyr Cys Ala Gly Gly Gly Thr
          165          170          175
Pro Ala Ala Met Leu Ile Cys Pro Trp Leu Ser Cys Phe Ala Gly Arg
          180          185          190
Asn Pro Gln Pro Val Ile Leu Gly Gly Lys His His Glu Glu Asn His
          195          200          205
Phe Leu Cys Tyr Gly Ala Trp Pro Leu Pro Ser Thr Leu Glu Leu Arg
          210          215          220
Lys Glu Asp Arg Gly Gly Arg Ala Thr Gly Lys Gln Val Thr Pro Gln
          225          230          235          240
Pro Leu Arg Phe His Val Ser Thr Trp Met Ser Ser Arg Leu Asp Arg
          245          250          255
Val Tyr Ile Ser Ile Thr Lys Ile Gln Ile Phe Gln Ser *
          260          265          269

```

<210> 404

<211> 262

<212> PRT

<213> Homo sapiens

<400> 404

```

Met Lys Ser Ser Leu Thr Val Val Gly Thr Leu Trp Ala Phe Leu Ser
 1          5          10          15
Leu Val Thr Ala Val Thr Ser Ser Thr Ser Tyr Phe Leu Pro Tyr Trp
          20          25          30
Leu Phe Gly Ser Gln Met Gly Lys Pro Val Ser Phe Ser Thr Phe Arg
          35          40          45
Arg Cys Asn Tyr Pro Val Arg Gly Glu Gly His Ser Leu Ile Met Val
          50          55          60
Glu Glu Cys Gly Arg Tyr Ala Ser Phe Asn Ala Ile Pro Ser Leu Ala
          65          70          75          80
Trp Gln Met Cys Thr Val Val Thr Gly Ala Gly Cys Ala Leu Leu Leu
          85          90          95
Leu Glu Ser Leu Ala Ala Val Leu Gly Cys Cys Met Glu Glu Leu Ile
          100          105          110
Ser Arg Met Met Gly Arg Cys Met Gly Ala Ala Gln Phe Val Gly Gly
          115          120          125
Pro Met Gln Pro Phe Cys Glu Ala Phe Pro Asp Leu Leu Leu Thr Ser
          130          135          140
Leu Ala Asp Met Asn Asp Pro Val Thr Pro Arg Gly Ile Trp Gly Arg
          145          150          155          160
Met Asn Gly Gly Gly Trp Gly Gly Gly Leu Leu Ile Ser Ser Gly Cys
          165          170          175
Ala Leu Tyr Pro Leu Gly Trp Asn Ser Pro Glu Ile Met Gln Thr Cys
          180          185          190
Gly Asn Val Ser Asn Gln Phe Gln Leu Gly Thr Cys Arg Leu Gly Trp
          195          200          205
Ala Tyr Tyr Cys Ala Gly Gly Gly Ala Ala Ala Ala Met Leu Ile Cys
          210          215          220

```

Thr Trp Leu Ser Cys Phe Ala Gly Arg Asn Pro Lys Pro Val Ile Leu
 225 230 235 240
 Val Glu Ser Ile Met Arg Asn Thr Asn Ser Tyr Ala Met Glu Leu Asp
 245 250 255
 His Cys Leu Lys Pro *
 260 261

<210> 405
 <211> 547
 <212> PRT
 <213> Homo sapiens

<400> 405
 Met Pro Ala Trp Glu Thr Gly Gly Phe Leu Val Thr Gly Leu Leu Ala
 1 5 10 15
 Asn Ser Gln Gly Phe Arg Met Ser Leu Leu Ser Leu Pro Trp Leu Gly
 20 25 30
 Leu Arg Pro Val Ala Thr Ser Pro Trp Leu Leu Leu Leu Val Val
 35 40 45
 Gly Ser Trp Leu Leu Ala Arg Ile Leu Ala Trp Thr Tyr Ala Phe Tyr
 50 55 60
 Asn Asn Cys Arg Arg Leu Gln Cys Phe Pro Gln Pro Pro Lys Arg Asn
 65 70 75 80
 Trp Phe Trp Gly His Leu Gly Leu Ile Thr Pro Thr Glu Glu Gly Leu
 85 90 95
 Lys Asn Ser Thr Gln Met Ser Ala Thr Tyr Ser Gln Gly Phe Thr Ile
 100 105 110
 Trp Leu Gly Pro Ile Ile Pro Phe Ile Val Leu Cys His Pro Asp Thr
 115 120 125
 Ile Arg Ser Ile Thr Asn Ala Ser Ala Ala Ile Ala Pro Lys Asp Asn
 130 135 140
 Leu Phe Ile Arg Phe Leu Lys Pro Trp Leu Gly Glu Gly Ile Leu Leu
 145 150 155 160
 Ser Gly Gly Asp Lys Trp Ser Arg His Arg Arg Met Leu Thr Pro Ala
 165 170 175
 Phe His Phe Asn Ile Leu Lys Ser Tyr Ile Thr Ile Phe Asn Lys Ser
 180 185 190
 Ala Asn Ile Met Leu Asp Lys Trp Gln His Leu Ala Ser Glu Gly Ser
 195 200 205
 Ser Cys Leu Asp Met Phe Glu His Ile Ser Leu Met Thr Leu Asp Ser
 210 215 220
 Leu Gln Lys Cys Ile Phe Ser Phe Asp Ser His Cys Gln Glu Arg Pro
 225 230 235 240
 Ser Glu Tyr Ile Ala Thr Ile Leu Glu Leu Ser Ala Leu Val Glu Lys
 245 250 255
 Arg Ser Gln His Ile Leu Gln His Met Asp Phe Leu Tyr Tyr Leu Ser
 260 265 270
 His Asp Gly Arg Arg Phe His Arg Ala Cys Arg Leu Val His Asp Phe
 275 280 285
 Thr Asp Ala Val Ile Arg Glu Arg Arg Arg Thr Leu Pro Thr Gln Gly
 290 295 300
 Ile Asp Asp Phe Phe Lys Asp Lys Ala Lys Ser Lys Thr Leu Asp Phe
 305 310 315 320
 Ile Asp Val Leu Leu Leu Ser Lys Asp Glu Asp Gly Lys Ala Leu Ser
 325 330 335
 Asp Glu Asp Ile Arg Ala Glu Ala Asp Thr Phe Met Phe Gly Gly His
 340 345 350
 Asp Thr Thr Ala Ser Gly Leu Ser Trp Val Leu Tyr Asn Leu Ala Arg
 355 360 365
 His Pro Glu Tyr Gln Glu Arg Cys Arg Gln Glu Val Gln Glu Leu Leu
 370 375 380

Lys Asp Arg Asp Pro Lys Glu Ile Glu Trp Asp Asp Leu Ala Gln Leu
 385 390 395 400
 Pro Phe Leu Thr Met Cys Val Lys Glu Ser Leu Arg Leu His Pro Pro
 405 410 415
 Ala Pro Phe Ile Ser Arg Cys Cys Thr Gln Asp Ile Val Leu Pro Asp
 420 425 430
 Gly Arg Val Ile Pro Lys Gly Ile Thr Cys Leu Ile Asp Ile Ile Gly
 435 440 445
 Val His His Asn Pro Thr Val Trp Pro Asp Pro Glu Val Tyr Asp Pro
 450 455 460
 Phe Arg Phe Asp Pro Glu Asn Ser Lys Gly Arg Ser Pro Leu Ala Phe
 465 470 475 480
 Ile Pro Phe Ser Ala Gly Pro Arg Asn Cys Ile Gly Gln Ala Phe Ala
 485 490 495
 Met Ala Glu Met Lys Val Val Leu Ala Leu Met Leu Leu His Phe Arg
 500 505 510
 Phe Leu Pro Asp His Thr Glu Pro Arg Arg Lys Leu Glu Leu Ile Met
 515 520 525
 Arg Ala Glu Gly Gly Leu Trp Leu Arg Val Glu Pro Leu Asn Val Ser
 530 535 540
 Leu Gln *
 545 546

<210> 406
 <211> 569
 <212> PRT
 <213> Homo sapiens

<400> 406
 Met Pro Ala Trp Glu Thr Gly Gly Phe Leu Val Thr Gly Leu Leu Ala
 1 5 10 15
 Asn Ser Gln Gly Phe Arg Met Ser Leu Leu Ser Leu Pro Trp Leu Gly
 20 25 30
 Leu Arg Pro Val Ala Thr Ser Pro Trp Leu Leu Leu Leu Val Val
 35 40 45
 Gly Ser Trp Leu Leu Ala Arg Ile Leu Ala Trp Thr Tyr Ala Phe Tyr
 50 55 60
 Asn Asn Cys Arg Arg Leu Gln Cys Phe Pro Gln Pro Pro Lys Arg Asn
 65 70 75 80
 Trp Phe Trp Gly His Leu Gly Leu Ile Thr Pro Thr Glu Glu Gly Leu
 85 90 95
 Lys Asn Ser Thr Gln Met Ser Ala Thr Tyr Ser Gln Gly Phe Thr Ile
 100 105 110
 Trp Leu Gly Pro Ile Ile Pro Phe Ile Val Leu Cys His Pro Asp Thr
 115 120 125
 Ile Arg Ser Ile Thr Asn Ala Ser Ala Ala Ile Ala Pro Lys Asp Asn
 130 135 140
 Leu Phe Ile Arg Phe Leu Lys Pro Trp Leu Gly Glu Gly Ile Leu Leu
 145 150 155 160
 Ser Gly Gly Asp Lys Trp Ser Arg His Arg Arg Met Leu Thr Pro Ala
 165 170 175
 Phe His Phe Asn Ile Leu Lys Ser Tyr Ile Thr Ile Phe Asn Lys Ser
 180 185 190
 Ala Asn Ile Met Leu Asp Lys Trp Gln His Leu Ala Ser Glu Gly Ser
 195 200 205
 Ser Cys Leu Asp Met Phe Glu His Ile Ser Leu Met Thr Leu Asp Ser
 210 215 220
 Leu Gln Lys Cys Ile Phe Ser Phe Asp Ser His Cys Gln Glu Arg Pro
 225 230 235 240
 Ser Glu Tyr Ile Ala Thr Ile Leu Glu Leu Ser Ala Leu Val Glu Lys
 245 250 255

Arg Ser Gln His Ile Leu Gln His Met Asp Phe Leu Tyr Tyr Leu Ser
 260 265 270
 His Asp Gly Arg Arg Phe His Arg Ala Cys Arg Leu Val His Asp Phe
 275 280 285
 Thr Asp Ala Val Ile Arg Glu Arg Arg Thr Leu Pro Thr Gln Gly
 290 295 300
 Ile Asp Asp Phe Phe Lys Asp Lys Ala Lys Ser Lys Thr Leu Asp Phe
 305 310 315 320
 Ile Asp Val Leu Leu Leu Ser Lys Asp Glu Asp Gly Lys Ala Leu Ser
 325 330 335
 Asp Glu Asp Ile Arg Ala Glu Ala Asp Thr Phe Met Phe Gly Gly Pro
 340 345 350
 Gln Tyr Leu Gly Ala Val His Pro Pro Val Leu Lys Pro Ser Leu Pro
 355 360 365
 Gly Cys Ser Ser Gly His Asp Thr Thr Ala Ser Gly Leu Ser Trp Val
 370 375 380
 Leu Tyr Asn Leu Ala Arg His Pro Glu Tyr Gln Glu Arg Cys Arg Gln
 385 390 395 400
 Glu Val Gln Glu Leu Leu Lys Asp Arg Asp Pro Lys Glu Ile Glu Trp
 405 410 415
 Asp Asp Leu Ala Gln Leu Pro Phe Leu Thr Met Cys Val Lys Glu Ser
 420 425 430
 Leu Arg Leu His Pro Pro Ala Pro Phe Ile Ser Arg Cys Cys Thr Gln
 435 440 445
 Asp Ile Val Leu Pro Asp Gly Arg Val Ile Pro Lys Gly Ile Thr Cys
 450 455 460
 Leu Ile Asp Ile Ile Gly Val His His Asn Pro Thr Val Trp Pro Asp
 465 470 475 480
 Pro Gly Val Tyr Asp Pro Phe Arg Phe Asp Pro Glu Asn Ser Lys Gly
 485 490 495
 Arg Ser Pro Leu Ala Phe Ile Pro Phe Ser Ala Gly Pro Arg Asn Cys
 500 505 510
 Ile Gly Gln Ala Phe Ala Met Ala Glu Met Lys Val Val Leu Ala Leu
 515 520 525
 Met Leu Leu His Phe Arg Phe Leu Pro Asp His Thr Glu Pro Arg Arg
 530 535 540
 Lys Leu Glu Leu Ile Met Arg Ala Glu Gly Gly Leu Trp Leu Arg Val
 545 550 555 560
 Glu Pro Leu Asn Val Gly Leu Gln *
 565 568

<210> 407

<211> 430

<212> PRT

<213> Homo sapiens

<400> 407

Met Pro Gln Leu Ser Leu Ser Trp Leu Gly Leu Gly Gln Val Ala Ala
 1 5 10 15
 Phe Pro Trp Leu Leu Leu Leu Ala Gly Ala Ser Arg Leu Leu Ala
 20 25 30
 Gly Phe Leu Ala Trp Thr Tyr Ala Phe Tyr Asp Asn Cys Arg Arg Leu
 35 40 45
 Gln Tyr Phe Pro Gln Pro Pro Lys Gln Lys Trp Phe Trp Gly Gln Pro
 50 55 60
 Gly Pro Pro Ala Ile Ala Pro Lys Asp Asp Leu Ser Ile Arg Phe Leu
 65 70 75 80
 Lys Pro Trp Leu Gly Glu Gly Ile Leu Leu Ser Gly Gly Asp Lys Trp
 85 90 95
 Ser Arg His Arg Arg Met Leu Thr Pro Ala Phe His Phe Asn Ile Leu
 100 105 110

Lys Pro Tyr Ile Lys Ile Phe Asn Arg Ser Val Asn Ile Met His Asp
 115 120 125
 Lys Trp Gln His Leu Ala Ser Glu Gly Ser Ser Arg Leu Asp Met Phe
 130 135 140
 Glu His Ile Ser Leu Met Thr Leu Asp Ser Leu Gln Lys Cys Ile Phe
 145 150 155 160
 Ser Phe Asp Ser His Cys Gln Glu Arg Pro Ser Glu Tyr Ile Ala Thr
 165 170 175
 Ile Leu Glu Leu Ser Ala Leu Val Glu Lys Arg Asn Gln His Ile Leu
 180 185 190
 Gln His Met Asp Phe Leu Tyr Tyr Leu Ser His Asp Gly Trp Arg Phe
 195 200 205
 Arg Arg Ala Cys Arg Leu Val His Asp Phe Thr Asp Ala Val Ile Gln
 210 215 220
 Glu Arg Arg His Thr Leu Pro Thr Gln Gly His Asp Thr Thr Ala Ser
 225 230 235 240
 Gly Leu Ser Trp Val Leu Tyr Asn Leu Ala Arg His Pro Glu Tyr Gln
 245 250 255
 Glu His Cys Arg Gln Glu Val Gln Glu Leu Leu Lys Asp Arg Asp Pro
 260 265 270
 Lys Glu Ile Glu Trp Asp Asp Leu Ala Gln Leu Pro Phe Leu Thr Met
 275 280 285
 Cys Val Lys Glu Ser Leu Arg Leu His Pro Pro Ala Pro Phe Ile Ser
 290 295 300
 Arg Cys Cys Thr Gln Asp Ile Val Leu Pro Asp Gly Arg Val Ile Pro
 305 310 315 320
 Lys Gly Ile Thr Cys Leu Ile Asp Ile Ile Gly Val His His Asn Pro
 325 330 335
 Thr Val Trp Pro Asp Pro Glu Val Tyr Asp Pro Phe Arg Phe Asp Pro
 340 345 350
 Glu Asn Ser Lys Gly Arg Ser Pro Leu Ala Phe Ile Pro Phe Ser Ala
 355 360 365
 Gly Pro Arg Asn Cys Ile Gly Gln Ala Phe Ala Met Ala Glu Met Lys
 370 375 380
 Val Val Leu Ala Leu Met Leu Leu His Phe Arg Phe Leu Pro Asp His
 385 390 395 400
 Thr Glu Pro Arg Arg Lys Leu Glu Leu Ile Met Arg Ala Glu Gly Gly
 405 410 415
 Leu Trp Leu Arg Val Glu Pro Leu Asn Val Ser Leu Gln *
 420 425 429

<210> 408

<211> 48

<212> PRT

<213> Homo sapiens

<400> 408

Met Met Arg Arg Cys Thr Gln Pro Thr Cys Pro Leu Thr Cys Ala Val
 1 5 10 15
 Met Pro Ala Glu Leu Trp Leu Thr Arg Cys Gly Lys Ile Trp Gln Arg
 20 25 30
 Gln Arg Pro Asn Phe Ile Pro Gln Thr Leu Gly Gly Gly Gly Ser *
 35 40 45 47

<210> 409

<211> 182

<212> PRT

<213> Homo sapiens

<400> 409

```

Met Thr Leu Arg Pro Ser Leu Leu Pro Leu His Leu Leu Leu Leu
 1      5      10      15
Leu Leu Ser Ala Ala Val Cys Arg Ala Glu Ala Gly Leu Glu Thr Glu
      20      25      30
Ser Pro Val Arg Thr Leu Gln Val Glu Thr Leu Gly Glu Pro Pro Lys
      35      40      45
Pro Cys Ala Glu Pro Ala Ala Phe Gly Asp Thr Leu His Ile His Tyr
      50      55      60
Thr Gly Ser Leu Val Asp Gly Arg Ile Ile Asp Thr Ser Leu Thr Arg
      65      70      75      80
Asp Pro Leu Val Ile Glu Leu Gly Gln Lys Gln Val Ile Pro Gly Leu
      85      90      95
Glu Gln Ser Leu Leu Asp Met Cys Val Gly Glu Lys Arg Arg Ala Ile
      100      105      110
Ile Pro Ser His Leu Ala Tyr Gly Lys Arg Gly Phe Pro Pro Ser Val
      115      120      125
Pro Ala Asp Ala Val Val Gln Tyr Asp Val Glu Leu Ile Ala Leu Ile
      130      135      140
Arg Ala Asn Tyr Trp Leu Lys Leu Val Lys Gly Ile Leu Pro Leu Val
      145      150      155      160
Gly Met Ala Met Val Pro Thr Pro Pro Gly Pro His Trp Val Ser Pro
      165      170      175
Ile Gln Lys Gly Gln *
      180 181

```

<210> 410

<211> 367

<212> PRT

<213> Homo sapiens

<400> 410

```

Met Ala Leu Arg Phe Leu Leu Gly Phe Leu Leu Ala Gly Val Asp Leu
 1      5      10      15
Gly Val Tyr Leu Met Arg Leu Glu Leu Cys Asp Pro Thr Gln Arg Leu
      20      25      30
Arg Val Ala Leu Ala Gly Glu Leu Val Gly Val Gly Gly His Phe Leu
      35      40      45
Phe Leu Gly Leu Ala Leu Val Ser Lys Asp Trp Arg Phe Leu Gln Arg
      50      55      60
Met Ile Thr Ala Pro Cys Ile Leu Phe Leu Phe Tyr Gly Trp Pro Gly
      65      70      75      80
Leu Phe Leu Glu Ser Ala Arg Trp Leu Ile Val Lys Arg Gln Ile Glu
      85      90      95
Glu Ala Gln Ser Val Leu Arg Ile Leu Ala Glu Arg Asn Arg Pro His
      100      105      110
Gly Gln Met Leu Gly Glu Glu Ala Gln Glu Ala Leu Gln Asp Leu Glu
      115      120      125
Asn Thr Cys Pro Leu Pro Ala Thr Ser Ser Phe Ser Phe Ala Ser Leu
      130      135      140
Leu Asn Tyr Arg Asn Ile Trp Lys Asn Leu Leu Ile Leu Gly Phe Thr
      145      150      155      160
Asn Phe Ile Ala His Ala Ile Arg His Cys Tyr Gln Pro Val Gly Gly
      165      170      175
Gly Gly Ser Pro Ser Asp Phe Tyr Leu Cys Ser Leu Leu Ala Ser Gly
      180      185      190
Thr Ala Ala Leu Ala Cys Val Phe Leu Gly Val Thr Val Asp Arg Phe
      195      200      205
Gly Arg Arg Gly Ile Leu Leu Leu Ser Met Thr Leu Thr Gly Ile Ala
      210      215      220

```



```

Ser Leu Val Leu Leu Gly Leu Trp Asp Tyr Leu Asn Glu Ala Ala Ile
225                230                235                240
Thr Thr Phe Ser Val Leu Gly Leu Phe Ser Ser Gln Ala Ala Ala Ile
                245                250                255
Leu Ser Thr Leu Leu Ala Ala Glu Val Ile Pro Thr Thr Val Arg Gly
                260                265                270
Arg Gly Leu Gly Leu Ile Met Ala Leu Gly Ala Leu Gly Gly Leu Ser
                275                280                285
Gly Pro Ala Gln Arg Leu His Met Gly His Gly Ala Phe Leu Gln His
                290                295                300
Val Val Leu Ala Ala Cys Ala Leu Leu Cys Ile Leu Ser Ile Met Leu
305                310                315                320
Leu Pro Glu Thr Lys Arg Lys Leu Leu Pro Glu Val Leu Arg Asp Gly
                325                330                335
Glu Leu Cys Arg Arg Pro Ser Leu Leu Arg Gln Pro Pro Pro Thr Arg
                340                345                350
Cys Asp His Val Pro Leu Leu Ala Thr Pro Asn Pro Ala Leu *
                355                360                365 366

```

```

<210> 411
<211> 85
<212> PRT
<213> Homo sapiens

```

```

<400> 411
Met Arg Pro Thr Asn Ser Gly Pro Thr Ser Ser Pro Arg Val Gln Asn
1          5          10          15
Ala Leu Lys Val Thr Val Phe Lys Leu Asn Ser Lys Asn Ala Lys Ala
20          25          30
Ala Ser Ser Glu Asn Lys Arg Arg Glu Gln Asp Phe Lys Cys Ile Ser
35          40          45
Asn Pro Arg Ala Arg Asn Arg Thr Thr Val Asn Gln Pro His His Leu
50          55          60
Val Gln Asp Phe Leu Phe Thr Ile Leu Lys Leu Gly Leu Ser Asn Thr
65          70          75          80
Leu Ile His Ser *
84

```

```

<210> 412
<211> 54
<212> PRT
<213> Homo sapiens

```

```

<400> 412
Met Cys Leu Met Lys Gln Ile Ile Tyr Leu Leu Tyr Val Gly Leu Cys
1          5          10          15
Ser Ile Leu Thr Ala Phe Leu Phe Thr Pro His His Val Leu Glu Arg
20          25          30
Tyr Arg Tyr Tyr Cys Pro Asp Phe Arg Glu Ile Lys Lys Leu Gly Gln
35          40          45
Gly Tyr Thr Thr Asn *
50          53

```

```

<210> 413
<211> 106
<212> PRT

```

<213> Homo sapiens

<400> 413

```

Met Lys Glu Ala Leu Leu Lys Cys Ser Arg Leu Ala Arg Gly Leu Leu
 1           5           10           15
Leu Cys Leu Asp Cys Ala Asn Asp His Arg Ser Pro Val Glu Arg Asn
           20           25           30
Ala Gln Thr Thr Leu Ile Leu His Ser Ser Leu Tyr Ser Leu Ser Leu
           35           40           45
Gly Asn Gln Leu Gln Gly Gly Gly Glu Met Ala Thr Thr Gly Gly Ser
           50           55           60
Thr Gln Gln Ala Lys Thr Tyr Gly Gly Leu Phe Gln Ile Gly Ala Met
           65           70           75           80
Glu Pro Ala Leu Phe Leu Leu Phe Ile Phe Leu Leu Ala Ser Phe Trp
           85           90           95
Val His Pro Ser Tyr Arg Ile Thr Tyr *
           100           105

```

<210> 414

<211> 48

<212> PRT

<213> Homo sapiens

<400> 414

```

Met Leu Glu Thr Phe Leu Phe Lys Leu Phe Leu Phe Phe Thr Leu Leu
 1           5           10           15
Val Asn Leu Phe Ile Thr Asn Asp Gln Leu Ser Val Gly Ser Ile Phe
           20           25           30
Leu Ser Phe Gln Leu Pro Ala Phe Phe Leu Asp Met Ala Glu Phe *
           35           40           45           47

```

<210> 415

<211> 47

<212> PRT

<213> Homo sapiens

<400> 415

```

Met Thr Phe Leu Leu His Val Leu Val Thr Ala Leu Ser Ser His Ser
 1           5           10           15
Thr Gly Arg Arg Gly Thr Asn Cys Phe Met Leu Leu Ser Ser Gly Asn
           20           25           30
His Pro Ile Pro Cys Gly Ser Leu Thr Pro Tyr Pro His Leu *
           35           40           45           46

```

<210> 416

<211> 41

<212> PRT

<213> Homo sapiens

<400> 416

```

Met Leu Ile Leu Ser His Ser Lys Ile Gln Val Asn Thr Pro Tyr Ser
 1           5           10           15
Ser Val Arg Glu Val Ile Ile Tyr Lys Gly Ala Val Met Lys Ser Thr
           20           25           30

```

Asp Tyr Leu Thr Ser Ser Met Val *
 35 40

<210> 417
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 417
 Met Thr Leu Leu Asn Leu Tyr Tyr Leu Asn Ser Phe Leu Leu Tyr Ser
 1 5 10 15
 Lys Arg Phe Glu Gly Ile Ser Phe Cys Val Gln Lys Val Ser Ile Ile
 20 25 30
 Leu Cys Ile His Tyr Leu Arg Ser Thr Thr Ile Trp Asn Lys Leu Phe
 35 40 45
 Phe Arg Asp Val Ser Ala *
 50 54

<210> 418
 <211> 182
 <212> PRT
 <213> Homo sapiens

<400> 418
 Met His Phe Pro Val Asn Cys Phe Phe Lys Ser Leu His Ile Phe Leu
 1 5 10 15
 Leu Leu Gln Val Phe Leu Ala Thr Phe Leu Arg Lys Lys Leu Ser Lys
 20 25 30
 Val Ala Phe Ser Cys Leu Val Glu Phe Phe Tyr Tyr Cys Tyr Tyr Phe
 35 40 45
 Leu Asp Phe Ala Ser Ser Val Ser Phe Leu Phe Cys Phe Val Leu Leu
 50 55 60
 Leu Arg Arg Ser Leu Thr Leu Ser Pro Arg Leu Glu Cys Ser Asp Thr
 65 70 75 80
 Ile Leu Ala His Cys Asn Leu Arg Leu Pro Gly Ser Arg Tyr Ser Ser
 85 90 95
 Ala Ser Thr Ser Arg Val Ala Gly Ile Thr Gly Val His His His Thr
 100 105 110
 Tyr Val Asn Phe Val Trp Thr Val Gln Lys Ala Val His Cys Val Gly
 115 120 125
 Gln Ala Ser Trp Glu Leu Leu Thr Ser Arg Asp Pro Pro Thr Leu Ala
 130 135 140
 Ser His Arg Ala Gly Ile Thr Gly Met Ser His Arg Thr Trp Ala Lys
 145 150 155 160
 Val Phe Leu Lys Arg Val Ile Phe Leu Asn Arg Glu Tyr Asp Leu Thr
 165 170 175
 Met Phe Cys Phe Leu Lys
 180 182

<210> 419
 <211> 67
 <212> PRT
 <213> Homo sapiens

<400> 419

```

Met Leu Val Pro Thr Phe Leu Ser Leu Val Cys Asp Phe Ser Leu Phe
 1           5           10           15
Val Leu Leu Leu Leu Gly Cys Leu Ser Phe Leu Leu Pro Pro His Leu
           20           25           30
Pro Cys Thr Ser Phe Pro Leu His Leu Trp Arg Leu Leu Ser Pro Phe
           35           40           45
Ile Ser Phe Leu Tyr Leu Leu Leu Leu Ser Tyr Lys Met Asn Cys
 50           55           60
Ile Ile *
65 66

```

<210> 420
 <211> 75
 <212> PRT
 <213> Homo sapiens

```

<400> 420
Met Leu Pro Leu Phe Lys His Ser Pro Val Arg Ile Phe Leu Phe Cys
 1           5           10           15
Leu Asn Thr Gln His Leu Ser Val Arg Asn Asn Phe Val Phe Asn Cys
           20           25           30
Val Ser Pro Gly Ile Leu Pro Ile Ser Leu Cys Leu Ala Phe Asn His
           35           40           45
Asp Arg Ser Thr Phe Phe Phe Ser Ile Ile Leu Leu Lys Ala Leu
 50           55           60
Ile Ile Leu Ser Ser Leu Leu Gln Thr Lys *
65           70           74

```

<210> 421
 <211> 78
 <212> PRT
 <213> Homo sapiens

```

<400> 421
Met Lys Pro Ile Leu Leu Val Leu Ser Ser Ile Thr Arg Ala Leu Leu
 1           5           10           15
Leu Gln Ile Ser Ser Val Ser Trp Gln Ser Cys Met Trp Arg Ala Met
           20           25           30
Pro Asp Cys Leu Gln Thr Asp Tyr Pro Ile Ser Leu Gly Phe His Gln
           35           40           45
Arg Thr Arg Leu Leu Asp Ala Leu Cys Pro Val Thr Gln Cys His His
 50           55           60
Ser Ala Trp Pro Cys Val Cys Gln Gly Ala Gln Thr Pro Ile
65           70           75           78

```

<210> 422
 <211> 120
 <212> PRT
 <213> Homo sapiens

```

<400> 422
Met Cys Cys Glu Leu Leu Ala Val Val Ile Ala Thr Leu Ile Ile Lys
 1           5           10           15
Ile Gly Leu Val Val Leu Leu Tyr Phe Ile Lys Leu Leu Ile His Ile
           20           25           30

```

```

Glu Phe Ile Lys Arg His Ser Ile Leu Lys Cys Glu Ser Ile Phe Asn
   35           40           45
Leu Asn Val Gly Ile Arg Met Tyr Pro Gly Gln Val Asn Phe Cys Glu
   50           55           60
Thr Leu Gln Met Leu Asp Gly Phe Gly Arg Ile Phe Gln Thr Lys Trp
   65           70           75           80
Thr Asn Leu Tyr Ser Tyr Ile Asn Ser Asn Phe Thr Lys Cys Cys Lys
           85           90           95
Asn Ser Gly Val Leu Met Val Val Lys Cys Arg Lys Glu Asn Ser Ala
           100           105           110
Leu Lys Glu Cys Leu Thr Ala *
           115           119

```

```

<210> 423
<211> 860
<212> PRT
<213> Homo sapiens

```

```

<400> 423
Met Ala Cys Arg Trp Ser Thr Lys Glu Ser Pro Arg Trp Arg Ser Ala
  1           5           10           15
Leu Leu Leu Leu Phe Leu Ala Gly Val Tyr Gly Asn Gly Ala Leu Ala
           20           25           30
Glu His Ser Glu Asn Val His Ile Ser Gly Val Ser Thr Ala Cys Gly
           35           40           45
Glu Thr Pro Glu Gln Ile Arg Ala Pro Ser Gly Ile Ile Thr Ser Pro
           50           55           60
Gly Trp Pro Ser Glu Tyr Pro Ala Lys Ile Asn Cys Ser Trp Phe Ile
           65           70           75           80
Arg Ala Asn Pro Gly Glu Ile Ile Thr Ile Ser Phe Gln Asp Phe Asp
           85           90           95
Ile Gln Gly Ser Arg Arg Cys Asn Leu Asp Trp Leu Thr Ile Glu Thr
           100           105           110
Tyr Lys Asn Ile Glu Ser Tyr Arg Ala Cys Gly Ser Thr Ile Pro Pro
           115           120           125
Pro Tyr Ile Ser Ser Gln Asp His Ile Trp Ile Arg Phe His Ser Asp
           130           135           140
Asp Asn Ile Ser Arg Lys Gly Phe Arg Leu Ala Tyr Phe Ser Gly Lys
           145           150           155           160
Ser Glu Glu Pro Asn Cys Ala Cys Asp Gln Phe Arg Cys Gly Asn Gly
           165           170           175
Lys Cys Ile Pro Glu Ala Trp Lys Cys Asn Asn Met Asp Glu Cys Gly
           180           185           190
Asp Ser Ser Asp Glu Glu Ile Cys Ala Lys Glu Ala Asn Pro Pro Thr
           195           200           205
Ala Ala Ala Phe Gln Pro Cys Ala Tyr Asn Gln Phe Gln Cys Leu Ser
           210           215           220
Arg Phe Thr Lys Val Tyr Thr Cys Leu Pro Glu Ser Leu Lys Cys Asp
           225           230           235           240
Gly Asn Ile Asp Cys Leu Asp Leu Gly Asp Glu Ile Asp Cys Asp Val
           245           250           255
Pro Thr Cys Gly Gln Trp Leu Lys Tyr Phe Tyr Gly Thr Phe Asn Ser
           260           265           270
Pro Asn Tyr Pro Asp Phe Tyr Pro Pro Gly Ser Asn Cys Thr Trp Leu
           275           280           285
Ile Asp Thr Gly Asp His Arg Lys Val Ile Leu Arg Phe Thr Asp Phe
           290           295           300
Lys Leu Asp Gly Thr Gly Tyr Gly Asp Tyr Val Lys Ile Tyr Asp Gly
           305           310           315           320
Leu Glu Glu Asn Pro His Lys Leu Leu Arg Val Leu Thr Ala Phe Asp
           325           330           335

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Ser His Ala Pro Leu Thr Val Val Ser Ser Ser Gly Gln Ile Arg Val
 340 345 350
 His Phe Cys Ala Asp Lys Val Asn Ala Ala Arg Gly Phe Asn Ala Thr
 355 360 365
 Tyr Gln Val Asp Gly Phe Cys Leu Pro Trp Glu Ile Pro Cys Gly Gly
 370 375 380
 Asn Trp Gly Cys Tyr Thr Glu Gln Gln Arg Cys Asp Gly Tyr Trp His
 385 390 395 400
 Cys Pro Asn Gly Arg Asp Glu Thr Asn Cys Thr Met Cys Gln Lys Glu
 405 410 415
 Glu Phe Pro Cys Ser Arg Asn Gly Val Cys Tyr Pro Arg Ser Asp Arg
 420 425 430
 Cys Asn Tyr Gln Asn His Cys Pro Asn Gly Ser Asp Glu Lys Asn Cys
 435 440 445
 Phe Phe Cys Gln Pro Gly Asn Phe His Cys Lys Asn Asn Arg Cys Val
 450 455 460
 Phe Glu Ser Trp Val Cys Asp Ser Gln Asp Asp Cys Gly Asp Gly Ser
 465 470 475 480
 Asp Glu Glu Asn Cys Pro Val Ile Val Pro Thr Arg Val Ile Thr Ala
 485 490 495
 Ala Val Ile Gly Ser Leu Ile Cys Gly Leu Leu Leu Val Ile Ala Leu
 500 505 510
 Gly Cys Thr Cys Lys Leu Tyr Ser Leu Arg Met Phe Glu Arg Arg Ser
 515 520 525
 Phe Glu Thr Gln Leu Ser Arg Val Glu Ala Glu Leu Leu Arg Arg Glu
 530 535 540
 Ala Pro Pro Ser Tyr Gly Gln Leu Ile Ala Gln Gly Leu Ile Pro Pro
 545 550 555 560
 Val Glu Asp Phe Pro Val Cys Ser Pro Asn Gln Ala Ser Val Leu Glu
 565 570 575
 Asn Leu Arg Leu Ala Val Arg Ser Gln Leu Gly Phe Thr Ser Val Arg
 580 585 590
 Leu Pro Met Ala Gly Arg Ser Ser Asn Ile Trp Asn Arg Ile Phe Asn
 595 600 605
 Phe Ala Arg Ser Arg His Ser Gly Ser Leu Ala Leu Val Ser Ala Asp
 610 615 620
 Gly Asp Glu Val Val Pro Ser Gln Ser Thr Ser Arg Glu Pro Glu Arg
 625 630 635 640
 Asn His Thr His Arg Ser Leu Phe Ser Val Glu Ser Asp Asp Thr Asp
 645 650 655
 Thr Glu Asn Glu Arg Arg Asp Met Ala Gly Ala Ser Gly Gly Val Ala
 660 665 670
 Ala Pro Leu Pro Gln Lys Val Pro Pro Thr Thr Ala Val Glu Ala Thr
 675 680 685
 Val Gly Ala Cys Ala Ser Ser Thr Gln Ser Thr Arg Gly Gly His
 690 695 700
 Ala Asp Asn Gly Arg Asp Val Thr Ser Val Glu Pro Pro Ser Val Ser
 705 710 715 720
 Pro Ala Arg His Gln Leu Thr Ser Ala Leu Ser Arg Met Thr Gln Gly
 725 730 735
 Leu Arg Trp Val Arg Phe Thr Leu Gly Arg Ser Ser Ser Leu Ser Gln
 740 745 750
 Asn Gln Ser Pro Leu Arg Gln Leu Asp Asn Gly Val Ser Gly Arg Glu
 755 760 765
 Asp Asp Asp Val Glu Met Leu Ile Pro Ile Ser Asp Gly Ser Ser
 770 775 780
 Asp Phe Asp Val Asn Asp Cys Ser Arg Pro Leu Leu Asp Leu Ala Ser
 785 790 795 800
 Asp Gln Gly Gln Gly Leu Arg Gln Pro Tyr Asn Ala Thr Asn Pro Gly
 805 810 815
 Val Arg Pro Ser Asn Arg Asp Gly Pro Cys Glu Arg Cys Gly Ile Val
 820 825 830
 His Thr Ala Gln Ile Pro Asp Thr Cys Leu Glu Val Thr Leu Lys Asn
 835 840 845

Glu Thr Ser Asp Asp Glu Ala Leu Leu Leu Cys *
 850 855 859

<210> 424
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 424
 Met Thr Lys Leu Met Ser Asn Arg Thr Arg Ile Arg Thr His Val Asn
 1 5 10 15
 Leu Cys Cys Phe Cys Arg Tyr Thr Thr Pro Lys Met Ser Phe Ser Ser
 20 25 30
 Ala Cys Val Ser Leu Cys Leu Met Leu Leu Phe Cys Ser Pro Pro Leu
 35 40 45
 Leu Leu Leu Leu Leu Ser Ser Phe Val *
 50 55 57

<210> 425
 <211> 400
 <212> PRT
 <213> Homo sapiens

<400> 425
 Met Asn Lys Lys Lys Pro Leu His Ser Lys Ser Ser Arg Ile His Gln
 1 5 10 15
 Gln Ile Ile Val Gln Leu Asp Ser Leu Pro Pro Pro Val Phe Ser Glu
 20 25 30
 Gln Val Met Ala Ser Met Ala Ala Val Leu Thr Trp Ala Leu Ala Leu
 35 40 45
 Leu Ser Ala Phe Ser Ala Thr Gln Ala Arg Lys Gly Phe Trp Asp Tyr
 50 55 60
 Phe Ser Gln Thr Ser Gly Asp Lys Gly Arg Val Glu Gln Ile His Gln
 65 70 75 80
 Gln Lys Met Ala Arg Glu Pro Ala Thr Leu Lys Asp Ser Leu Glu Gln
 85 90 95
 Asp Leu Asn Asn Met Asn Lys Phe Leu Glu Lys Leu Arg Pro Leu Ser
 100 105 110
 Gly Ser Glu Ala Pro Arg Leu Pro Gln Asp Pro Val Gly Met Arg Arg
 115 120 125
 Gln Leu Gln Glu Glu Leu Glu Glu Val Lys Ala Arg Leu Gln Pro Tyr
 130 135 140
 Met Ala Glu Ala His Glu Leu Val Gly Trp Asn Leu Glu Gly Leu Arg
 145 150 155 160
 Gln Gln Leu Lys Pro Tyr Thr Met Asp Leu Met Glu Gln Val Ala Leu
 165 170 175
 Arg Val Gln Glu Leu Gln Glu Gln Leu Arg Val Val Gly Glu Asp Thr
 180 185 190
 Lys Ala Gln Leu Leu Gly Gly Val Asp Glu Ala Trp Ala Leu Leu Gln
 195 200 205
 Gly Leu Gln Ser Arg Val Val His His Thr Gly Arg Phe Lys Glu Leu
 210 215 220
 Phe His Pro Tyr Ala Glu Ser Leu Val Ser Gly Ile Gly Arg His Val
 225 230 235 240
 Gln Glu Leu His Arg Ser Val Ala Pro His Ala Pro Ala Ser Pro Ala
 245 250 255
 Arg Leu Ser Arg Cys Val Gln Val Leu Ser Arg Lys Leu Thr Leu Lys
 260 265 270

Ala Lys Ala Leu His Ala Arg Ile Gln Gln Asn Leu Asp Gln Leu Arg
 275 280 285
 Glu Glu Leu Ser Arg Ala Phe Ala Gly Thr Gly Thr Glu Glu Gly Ala
 290 295 300
 Gly Pro Asp Pro Gln Met Leu Ser Glu Glu Val Arg Gln Arg Leu Gln
 305 310 315 320
 Ala Phe Arg Gln Asp Thr Tyr Leu Gln Ile Ala Ala Phe Thr Arg Ala
 325 330 335
 Ile Asp Gln Glu Thr Glu Glu Val Gln Gln Gln Leu Ala Pro Pro Pro
 340 345 350
 Pro Gly His Ser Ala Phe Ala Pro Glu Phe Gln Gln Thr Asp Ser Gly
 355 360 365
 Lys Val Leu Ser Lys Leu Gln Ala Arg Leu Asp Asp Leu Trp Glu Asp
 370 375 380
 Ile Thr His Ser Leu His Asp Gln Gly His Ser His Leu Gly Asp Pro
 385 390 395 400

<210> 426
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 426
 Met Phe Ile Gly Leu Gly Ile Ser Phe Leu Asn Cys Pro Ser Leu Phe
 1 5 10 15
 Ala His Phe Ile Leu Phe Cys Pro Leu Pro Leu Phe Gly Ile Phe Ile
 20 25 30
 Ser Tyr Trp Phe Val Arg Leu Leu Ser Ile Asn Arg Gly Trp Lys *
 35 40 45 47

<210> 427
 <211> 313
 <212> PRT
 <213> Homo sapiens

<400> 427
 Met Met Lys Ile Pro His Gln Thr Gln Lys Lys Arg Ser Leu Glu Asp
 1 5 10 15
 Pro Asn Ser Arg Pro Arg Arg Arg Ile Phe Arg Cys Phe His Leu Val
 20 25 30
 Ile Arg Thr Glu Gln Arg Glu Leu Thr Met Glu Phe Gly Leu Ser Trp
 35 40 45
 Leu Phe Leu Val Ala Ile Leu Lys Gly Val Gln Cys Glu Val Gln Leu
 50 55 60
 Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu
 65 70 75 80
 Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr Ala Met Ser Trp
 85 90 95
 Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ala Ile Ser
 100 105 110
 Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe
 115 120 125
 Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn
 130 135 140
 Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Lys Ser His
 145 150 155 160

Pro Gly Tyr Tyr Tyr Asp Ser Ser Gly Tyr Ser Tyr Tyr Phe Asp Tyr
 165 170 175
 Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ser Asp Ile Gln Met
 180 185 190
 Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val Gly Asp Arg Val Thr
 195 200 205
 Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser Trp Leu Ala Trp Tyr
 210 215 220
 Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Lys Ala Ser
 225 230 235 240
 Ser Leu Glu Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly
 245 250 255
 Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Asp Asp Phe Ala
 260 265 270
 Thr Tyr Tyr Cys Gln Gln Tyr Asn Ser Tyr Leu Arg Gly Arg Ser Ala
 275 280 285
 Lys Gly Pro Arg Trp Lys Ser Asn Glu Leu Trp Leu His His Leu Ser
 290 295 300
 Ser Ser Ser Arg His Leu Met Ser Ser
 305 310 313

<210> 428

<211> 318

<212> PRT

<213> Homo sapiens

<400> 428

Met Lys Arg Leu Ser Leu Val Thr Thr Asn Arg Leu Ser Pro His Gly
 1 5 10 15
 Asn Phe Phe Thr Leu Cys Thr Phe Pro Leu Ala Val Asp Met Ala Ala
 20 25 30
 Leu Phe Gln Glu Ala Ser Ser Cys Pro Val Cys Ser Asp Tyr Leu Glu
 35 40 45
 Lys Pro Met Ser Leu Glu Cys Gly Cys Ala Val Cys Leu Lys Cys Ile
 50 55 60
 Asn Ser Leu Gln Lys Glu Pro His Gly Glu Asp Leu Leu Cys Cys Tyr
 65 70 75 80
 Ser Ser Met Val Ser Arg Lys Asn Lys Ile Arg Arg Asn Arg Gln Leu
 85 90 95
 Glu Arg Leu Ala Ser His Ile Lys Glu Leu Glu Pro Lys Leu Lys Lys
 100 105 110
 Ile Leu Gln Met Asn Pro Arg Met Arg Lys Phe Gln Val Asp Met Thr
 115 120 125
 Leu Asp Ala Asn Thr Ala Asn Asn Phe Leu Leu Ile Ser Asp Asp Leu
 130 135 140
 Arg Ser Val Arg Ser Gly Arg Ile Arg Gln Asn Arg Gln Asp Leu Ala
 145 150 155 160
 Glu Arg Phe Asp Val Ser Val Cys Ile Leu Gly Ser Pro Arg Phe Thr
 165 170 175
 Cys Gly Arg His Cys Trp Glu Val Asp Val Gly Thr Ser Thr Glu Trp
 180 185 190
 Asp Leu Gly Val Cys Arg Glu Ser Val His Arg Lys Gly Arg Ile Gln
 195 200 205
 Leu Thr Thr Glu Leu Gly Phe Trp Thr Val Ser Leu Arg Asp Gly Gly
 210 215 220
 Arg Leu Ser Ala Ser Thr Val Pro Leu Thr Phe Leu Phe Val Asp Arg
 225 230 235 240
 Lys Leu Gln Arg Val Gly Ile Phe Leu Asp Met Gly Met Gln Asn Val
 245 250 255
 Ser Phe Phe Asp Ala Glu Gly Gly Ser His Val Tyr Thr Phe Arg Ser
 260 265 270

Val Ser Ala Glu Glu Pro Leu Cys Pro Phe Leu Ala Pro Ser Ile Pro
 275 280 285
 Pro Asn Gly Asp Gln Gly Val Leu Ser Ile Cys Pro Leu Met Asn Ser
 290 295 300
 Gly Thr Thr Asp Ala Pro Val Arg Pro Gly Glu Ala Lys *
 305 310 315 317

<210> 429
 <211> 213
 <212> PRT
 <213> Homo sapiens

<400> 429
 Met Tyr Arg Leu Ser Ser Ser Met Leu Leu Arg Ala Leu Ala Gln Ala
 1 5 10 15
 Met Arg Thr Gly His Leu Ile Gly Gln Ser Leu His Ser Ser Ala Val
 20 25 30
 Ala Ala Thr Tyr Lys Tyr Val Asn Lys Lys Glu Gln Glu Ser Glu Val
 35 40 45
 Asp Met Lys Ser Glu Thr Asp Asn Ala Ala Arg Ile Leu Met Trp Thr
 50 55 60
 Glu Leu Ile Arg Gly Leu Gly Met Thr Leu Arg Tyr Leu Phe Arg Glu
 65 70 75 80
 Pro Ala Thr Ile Asn Tyr Pro Phe Glu Lys Gly Pro Leu Ser Pro Arg
 85 90 95
 Phe Arg Gly Glu His Ala Leu Arg Arg Tyr Pro Ser Gly Glu Glu Arg
 100 105 110
 Cys Ile Ala Cys Lys Leu Cys Glu Ala Ile Cys Pro Ala Gln Ala Ile
 115 120 125
 Thr Ile Glu Ala Glu Pro Arg Ala Asp Gly Ser Arg Arg Thr Thr Arg
 130 135 140
 Tyr Asp Ile Asp Met Thr Lys Cys Ile Tyr Cys Gly Phe Cys Gln Glu
 145 150 155 160
 Ala Cys Pro Val Asp Ala Ile Val Glu Gly Pro Asn Phe Glu Phe Ser
 165 170 175
 Thr Glu Thr His Glu Glu Leu Leu Tyr Asn Lys Glu Lys Leu Leu Asn
 180 185 190
 Asn Gly Asp Lys Trp Glu Ala Glu Ile Ala Ala Asn Ile Gln Ala Asp
 195 200 205
 Tyr Leu Tyr Arg *
 210 212

<210> 430
 <211> 70
 <212> PRT
 <213> Homo sapiens

<400> 430
 Met Ile Glu Leu Ala Phe Ala Ser Phe Leu Lys Cys Ala Ser Phe Ser
 1 5 10 15
 Leu Val Ile Leu Val Ser Phe Ser Phe Pro Leu Trp Phe Phe Leu Ser
 20 25 30
 Cys Phe Ala Cys Ser Tyr Ser Phe Ser Cys Leu Leu Ser Arg Ile Ser
 35 40 45
 Ile Leu Ser Pro Phe Cys His Leu Leu Pro Arg Gln Ser His Asp Leu
 50 55 60
 Cys Thr Asn Asp Leu *
 65 69

<210> 431
 <211> 63
 <212> PRT
 <213> Homo sapiens

<400> 431
 Met Ser Val Leu Ile Trp Cys Leu Ile Phe Phe Pro Leu Glu Tyr Ser
 1 5 10 15
 Arg Pro Lys Arg Gly Leu Lys Val Asp Asn Val Cys Phe Ser Thr Val
 20 25 30
 Ala Leu Ser Thr Gly Ser Arg Ile Ser Asn Trp Ser Asn Cys Glu Thr
 35 40 45
 Cys Leu Leu Ala Glu Met Phe Phe Leu Asp Leu Gly Phe Ser *
 50 55 60 62

<210> 432
 <211> 319
 <212> PRT
 <213> Homo sapiens

<400> 432
 Met Ala Ala Ala Ala Val Ser Gly Ala Leu Gly Arg Ala Gly Trp Arg
 1 5 10 15
 Leu Leu Gln Leu Arg Cys Leu Pro Val Ala Arg Cys Arg Gln Ala Leu
 20 25 30
 Val Pro Arg Ala Phe His Ala Ser Ala Val Gly Leu Arg Ser Ser Asp
 35 40 45
 Glu Gln Lys Gln Gln Pro Pro Asn Ser Phe Ser Gln Gln His Ser Glu
 50 55 60
 Thr Gln Gly Ala Glu Lys Pro Asp Pro Glu Ser Ser His Ser Pro Pro
 65 70 75 80
 Arg Tyr Thr Asp Gln Gly Gly Glu Glu Glu Asp Tyr Glu Ser Glu
 85 90 95
 Glu Gln Leu Gln His Arg Ile Leu Thr Ala Ala Leu Glu Phe Val Pro
 100 105 110
 Ala His Gly Trp Thr Ala Glu Ala Ile Ala Glu Gly Ala Gln Ser Leu
 115 120 125
 Gly Leu Ser Ser Ala Ala Ala Ser Met Phe Gly Lys Asp Gly Ser Glu
 130 135 140
 Leu Ile Leu His Phe Val Thr Gln Cys Asn Thr Arg Leu Thr Arg Val
 145 150 155 160
 Leu Glu Glu Glu Gln Lys Leu Val Gln Leu Gly Gln Ala Glu Lys Arg
 165 170 175
 Lys Thr Asp Gln Phe Leu Arg Asp Ala Val Glu Thr Arg Leu Arg Met
 180 185 190
 Leu Ile Pro Tyr Ile Glu His Trp Pro Arg Ala Leu Ser Ile Leu Met
 195 200 205
 Leu Pro His Asn Ile Pro Ser Ser Leu Ser Leu Leu Thr Ser Met Val
 210 215 220
 Asp Asp Met Trp His Tyr Ala Gly Asp Gln Ser Thr Asp Phe Asn Trp
 225 230 235 240
 Tyr Thr Arg Arg Ala Met Leu Ala Ala Ile Tyr Asn Thr Thr Glu Leu
 245 250 255
 Val Met Met Gln Asp Ser Ser Pro Asp Phe Glu Asp Thr Trp Arg Phe
 260 265 270
 Leu Glu Asn Arg Val Asn Asp Ala Met Asn Met Gly His Thr Ala Lys
 275 280 285

Gln Val Lys Ser Thr Gly Glu Ala Leu Val Gln Gly Leu Met Gly Ala
 290 295 300
 Ala Val Thr Leu Lys Asn Leu Thr Gly Leu Asn Gln Arg Arg *
 305 310 315 318

<210> 433
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 433
 Met Gly His Leu Leu Cys Val Trp Gly Phe Thr Tyr Ile Leu Pro Cys
 1 5 10 15
 Ile Ser Leu Arg His Ser Pro Leu Gln Pro Pro Gly Trp Glu Gly Phe
 20 25 30
 Cys Arg Asn Val Ser Phe Pro Leu Leu Arg Ala Ser Leu Ala Pro His
 35 40 45
 His Arg Arg Lys Asp Gly Phe Ile
 50 55 56

<210> 434
 <211> 84
 <212> PRT
 <213> Homo sapiens

<400> 434
 Met His Val Leu Ile Arg Thr Pro Cys Ser Leu Ile Leu Cys Leu Ala
 1 5 10 15
 Asn Ser Ser His Ala Ser Leu Pro Gly Phe Ser Ala Ser Ser Phe Leu
 20 25 30
 Phe Lys Glu Ser Cys Arg Leu Leu Asn Ser Ser Phe Leu Leu His
 35 40 45
 Gly Leu Glu Ile Leu Ser Gly Ala Ile Ala Gly Lys Cys Asn Ser Phe
 50 55 60
 Cys Leu Phe Ser Ile Ser Gln Gly Ser Leu Ser Phe Asn Ala Ser Cys
 65 70 75 80
 Pro Leu Pro *
 83

<210> 435
 <211> 142
 <212> PRT
 <213> Homo sapiens

<400> 435
 Met Ala Arg Pro Thr Ser Ser Leu Cys Leu Leu Leu Tyr Phe Phe Ser
 1 5 10 15
 Thr Gly Lys Ser Val Pro Val Ser Ile Leu Pro Gly Val Val Arg Met
 20 25 30
 Leu Leu Pro Pro Pro His Leu Leu Pro Gly Gln Pro Ala Cys Pro
 35 40 45
 Ala Ala Val Met Cys Asp Lys Glu Phe Met Trp Ala Leu Lys Asn Gly
 50 55 60
 Asp Leu Asp Glu Val Lys Asp Tyr Val Ala Lys Gly Glu Asp Val Asn
 65 70 75 80

Arg Thr Leu Glu Gly Gly Arg Lys Pro Leu His Tyr Ala Ala Asp Cys
 85 90 95
 Gly Gln Leu Glu Ile Leu Glu Phe Leu Leu Leu Lys Gly Ala Asp Ile
 100 105 110
 Asn Ala Pro Asp Lys His His Ile Thr Pro Leu Leu Ser Ala Val Tyr
 115 120 125
 Glu Gly His Val Ser Cys Val Lys Leu Leu Leu Ser Lys *
 130 135 140 141

<210> 436
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 436
 Met Ser Leu Lys Ser Lys Lys Ser Lys Thr Ser Cys Ile Tyr Met Phe
 1 5 10 15
 Trp Ser Cys Leu Ile Gly Phe Phe Phe Leu Leu Thr Tyr Pro Pro Leu
 20 25 30
 Asn Pro Tyr Leu Pro Arg Ser Ser Pro Ser Cys Lys Trp His Gln Cys
 35 40 45
 Pro Ser
 50

<210> 437
 <211> 91
 <212> PRT
 <213> Homo sapiens

<400> 437
 Met Phe Leu Val Phe Cys Asn Ile Ile Thr Val Ile Thr Met Thr Ser
 1 5 10 15
 Leu Phe Leu Ile Leu Leu Ser Cys Ile Phe Ile Leu Ile Thr Cys Cys
 20 25 30
 Tyr Lys Cys Arg Tyr Ile Ser Phe Ser Phe Thr Phe Ser Val Thr Pro
 35 40 45
 Ser Gly Phe Phe Val Ser Ile Leu Gln Tyr Leu Ala His Ile Leu Leu
 50 55 60
 Leu Ile Thr Leu Gln Phe His Phe Arg Val Cys Tyr Val Asn Ile Ile
 65 70 75 80
 Thr Leu Ile Pro Leu Ala Gln Ile Phe Leu *
 85 90

<210> 438
 <211> 83
 <212> PRT
 <213> Homo sapiens

<400> 438
 Met Glu Asn Asn Leu Ile Leu Thr Cys Trp Gly Arg Cys Ala Ala His
 1 5 10 15
 Pro Val Glu Leu Met Gly Val Thr Ala Lys Thr Lys Val Lys Pro Leu
 20 25 30
 Leu Pro Arg Ala Gln Lys Gln Arg Glu Glu Gln Gly Lys Phe Lys Phe
 35 40 45

Lys Lys Pro His Ser Cys Ile Lys Lys Ser Arg Asn Leu Ser Ser Arg
 50 55 60
 Leu Cys Glu Asn Tyr Val Cys Trp Lys Leu Val Ser Ser Pro Arg Leu
 65 70 75 80
 Gly Gln Lys
 83

<210> 439
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 439
 Met Leu Met Val Leu Lys Leu Val Ile Cys Ser Ile Phe Ile Gly Lys
 1 5 10 15
 Glu Gly His Phe Val Ile Ser Tyr Leu Pro Ser Phe Ser Leu Asn Ile
 20 25 30
 Gln Asp Thr Leu Lys Ser Val His Gln Pro Cys Ser Ala Leu Ser Gly
 35 40 45
 Tyr Asn Met Pro Glu Lys Pro Glu Glu Cys Ser Ile Lys Glu Arg His
 50 55 60
 Pro Tyr Ser Gln Arg Leu Phe Leu Glu Phe Lys Val *
 65 70 75 76

<210> 440
 <211> 97
 <212> PRT
 <213> Homo sapiens

<400> 440
 Met Gly Ile Ser Cys Lys Leu Leu Leu Leu Thr Arg Val Cys Tyr Leu
 1 5 10 15
 Ile Thr Pro Leu Asp Leu Glu Arg Phe Pro Phe Pro Asn Thr Glu Gln
 20 25 30
 Val Thr Phe Pro Glu Arg Arg Val Ser Val Phe Leu Leu Pro Leu Ser
 35 40 45
 Trp Cys Leu Asp Thr Arg Leu Pro Arg Glu Pro Gly Cys Arg Cys Arg
 50 55 60
 His Ser Ser Pro Gln Asp Val Val Gly Gly Ser His Leu Val Thr Thr
 65 70 75 80
 Thr Leu Leu Ser Leu Pro Ala Arg Glu Phe Trp Thr Ser Cys Ile Leu
 85 90 95 96
 *

<210> 441
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 441
 Met Ile Leu Phe His Cys Glu Lys Leu Tyr Ala Leu Arg Ser Phe Asp
 1 5 10 15
 Phe Trp Phe Met Leu Glu Leu Leu Ser Thr Trp Pro Arg Ala Leu Gly
 20 25 30

Leu Leu Cys Pro Gly Leu Ala Ile Glu Ala His Glu Gly *
 35 40 45

<210> 442
 <211> 79
 <212> PRT
 <213> Homo sapiens

<400> 442
 Met Lys Thr Leu Lys Ile Phe Thr Tyr Tyr Phe Leu Ser Leu Ser Asn
 1 5 10 15
 Ile Phe Ile Leu Thr Ile Gly Leu Thr Cys Ala Ser Gly Pro Leu Asp
 20 25 30
 Phe Thr Pro Val Phe Leu Leu Gly Lys Gly Ser Leu Lys Cys Lys Tyr
 35 40 45
 Gly Pro Val Ala His Leu Pro Pro Glu Ala Leu Glu Ser Gly Pro Gln
 50 55 60
 Ile Pro Ser Gly Cys Asn Trp Lys Glu Ile Pro Thr Ser Ser *
 65 70 75 78

<210> 443
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 443
 Met Thr Pro Arg Glu Pro Ala Gln Glu Arg Arg Pro His Leu Glu Gly
 1 5 10 15
 Pro Thr Leu Lys Ala Ser Asp Gly Glu Thr Trp Cys Glu Leu Arg Gly
 20 25 30
 Asp Glu Met Arg Arg Ser Ser Ala Pro Cys Leu Val Gly Ser Pro Gly
 35 40 45
 Pro Thr Cys *
 50 51

<210> 444
 <211> 389
 <212> PRT
 <213> Homo sapiens

<400> 444
 Met Glu Ser Arg Met Trp Pro Ala Leu Leu Leu Ser His Leu Leu Pro
 1 5 10 15
 Leu Trp Pro Leu Leu Leu Leu Pro Leu Pro Pro Ala Gln Asp Ser
 20 25 30
 Ser Ser Ser Pro Arg Thr Pro Pro Ala Pro Ala Arg Pro Pro Cys Ala
 35 40 45
 Arg Gly Gly Pro Ser Ala Pro Arg His Val Cys Val Trp Glu Arg Ala
 50 55 60
 Pro Pro Pro Ser Arg Ser Pro Arg Val Pro Arg Ser Arg Arg Gln Val
 65 70 75 80
 Leu Pro Gly Thr Ala Pro Pro Ala Thr Pro Ser Gly Phe Glu Glu Gly
 85 90 95
 Pro Pro Ser Ser Gln Tyr Pro Trp Ala Ile Val Trp Gly Pro Thr Val
 100 105 110

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Ser Arg Glu Asp Gly Gly Asp Pro Asn Ser Ala Asn Pro Gly Phe Leu
115 120 125
Asp Tyr Gly Phe Ala Ala Pro His Gly Leu Ala Thr Pro His Pro Asn
130 135 140
Ser Asp Ser Met Arg Gly Asp Gly Asp Gly Leu Ile Leu Gly Glu Ala
145 150 155 160
Pro Ala Thr Leu Arg Pro Phe Leu Phe Gly Gly Arg Gly Glu Gly Val
165 170 175
Asp Pro Gln Leu Tyr Val Thr Ile Thr Ile Ser Ile Ile Ile Val Leu
180 185 190
Val Ala Thr Gly Ile Ile Phe Lys Phe Cys Trp Asp Arg Ser Gln Lys
195 200 205
Arg Arg Arg Pro Ser Gly Gln Gln Gly Ala Leu Arg Gln Glu Glu Ser
210 215 220
Gln Gln Pro Leu Thr Asp Leu Ser Pro Ala Gly Val Thr Val Leu Gly
225 230 235 240
Ala Phe Gly Asp Ser Pro Thr Pro Thr Pro Asp His Glu Glu Pro Arg
245 250 255
Gly Gly Pro Arg Pro Gly Met Pro His Pro Lys Gly Ala Pro Ala Phe
260 265 270
Gln Leu Asn Arg Ser Leu Ser Gly Gln Arg Phe Leu His Thr Leu Pro
275 280 285
Leu Met Cys Val Ser Arg Pro Asp Val Val Val Val Cys Gly Val Leu
290 295 300
Thr Leu Ser Leu Met Asn Thr His Pro Pro Arg Phe Arg Ser Pro Cys
305 310 315 320
Met Leu Leu Gln Arg Trp Val Gly Gly Glu Leu Gly Ala Pro Trp Ala
325 330 335
Leu Ile Gly His Gly Leu Val Pro Phe His Thr Ile Cys Phe Ser Val
340 345 350
Ser Pro Ser Tyr Ser Lys Asp Ala Gly Ile Thr Leu Arg Ala Pro Pro
355 360 365
Trp Glu Trp Gly Ser Glu Ala Pro Asp Phe Thr Pro Ser Pro Leu Leu
370 375 380
Lys Ser Val Phe *
385 388

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<210> 445
<211> 338
<212> PRT
<213> Homo sapiens

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<400> 445
Met Asp Phe Leu Val Leu Phe Leu Phe Tyr Leu Ala Ser Val Leu Met
1 5 10 15
Gly Leu Val Leu Ile Cys Val Cys Ser Lys Thr His Ser Leu Lys Gly
20 25 30
Leu Ala Arg Gly Gly Ala Gln Ile Phe Ser Cys Ile Ile Pro Glu Cys
35 40 45
Leu Gln Arg Ala Met His Gly Leu Leu His Tyr Leu Phe His Thr Arg
50 55 60
Asn His Thr Phe Ile Val Leu His Leu Val Leu Gln Gly Met Val Tyr
65 70 75 80
Thr Glu Tyr Thr Trp Glu Val Phe Gly Tyr Cys Gln Glu Leu Glu Leu
85 90 95
Ser Leu His Tyr Leu Leu Leu Pro Tyr Leu Leu Leu Gly Val Asn Leu
100 105 110
Phe Phe Phe Thr Leu Thr Cys Gly Thr Asn Pro Gly Ile Ile Thr Lys
115 120 125
Ala Asn Glu Leu Leu Phe Leu His Val Tyr Glu Phe Asp Glu Val Met
130 135 140

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Phe Pro Lys Asn Val Arg Cys Ser Thr Cys Asp Leu Arg Lys Pro Ala
 145 150 155 160
 Arg Ser Lys His Cys Ser Val Cys Asn Trp Cys Val His Arg Phe Asp
 165 170 175
 His His Cys Val Trp Val Asn Asn Cys Ile Gly Ala Trp Asn Ile Arg
 180 185 190
 Tyr Phe Leu Ile Tyr Val Leu Thr Leu Thr Ala Ser Ala Ala Thr Val
 195 200 205
 Ala Ile Val Ser Thr Thr Phe Leu Val His Leu Val Val Met Ser Asp
 210 215 220
 Leu Tyr Gln Glu Thr Tyr Ile Asp Asp Leu Gly His Leu His Val Met
 225 230 235 240
 Asp Thr Val Phe Leu Ile Gln Tyr Leu Phe Leu Thr Phe Pro Arg Ile
 245 250 255
 Val Phe Met Leu Gly Phe Val Val Val Leu Ser Phe Leu Leu Gly Gly
 260 265 270
 Tyr Leu Leu Phe Val Leu Tyr Leu Ala Ala Thr Asn Gln Thr Thr Asn
 275 280 285
 Glu Trp Tyr Arg Gly Asp Trp Ala Trp Cys Gln Arg Cys Pro Leu Val
 290 295 300
 Ala Trp Ala Ser Val Ser Arg Ala Pro Ser Pro Glu His Ser Leu
 305 310 315 320
 Pro Trp Ala Ser Glu Gln Pro Ser Arg Asp Leu Ser Thr Cys Leu Ser
 325 330 335
 Met Ser
 338

<210> 446
 <211> 139
 <212> PRT
 <213> Homo sapiens

<400> 446
 Met Lys Val Arg Arg Gly Ser Ser Ser Ser Leu Thr His Arg Pro Ala
 1 5 10 15
 Pro Ser Pro Ala Thr Pro Arg Leu Leu Gly Thr Arg Arg Val Leu Leu
 20 25 30
 Gly Val Ser Glu Gly Thr Gly Cys Ala Asp Ala Met Glu Leu Val Leu
 35 40 45
 Val Phe Leu Cys Ser Leu Leu Ala Pro Met Val Leu Ala Ser Ala Ala
 50 55 60
 Glu Lys Glu Lys Glu Met Asp Pro Phe His Tyr Asp Tyr Gln Thr Leu
 65 70 75 80
 Arg Ile Gly Gly Leu Val Phe Ala Val Val Leu Phe Ser Val Gly Ile
 85 90 95
 Leu Leu Ile Leu Ser Arg Arg Cys Lys Cys Ser Phe Asn Gln Lys Pro
 100 105 110
 Arg Ala Pro Gly Asp Glu Glu Ala Gln Val Glu Asn Leu Ile Thr Ala
 115 120 125
 Asn Ala Thr Glu Pro Gln Lys Ala Glu Asn *
 130 135 138

<210> 447
 <211> 383
 <212> PRT
 <213> Homo sapiens

<400> 447

```

Met Leu Arg Trp Thr Val His Leu Glu Gly Gly Pro Arg Arg Val Asn
 1          5          10          15
His Ala Ala Val Ala Val Gly His Arg Val Tyr Ser Phe Gly Gly Tyr
      20          25          30
Cys Ser Gly Glu Asp Tyr Glu Thr Leu Arg Gln Ile Asp Val His Ile
      35          40          45
Phe Asn Ala Val Ser Leu Arg Trp Thr Lys Leu Pro Pro Val Lys Ser
      50          55          60
Ala Ile Arg Gly Gln Ala Pro Val Val Pro Tyr Met Arg Tyr Gly His
      65          70          75          80
Ser Thr Val Leu Ile Asp Asp Thr Val Leu Leu Trp Gly Gly Arg Asn
      85          90          95
Asp Thr Glu Gly Ala Cys Asn Val Leu Tyr Ala Phe Asp Val Asn Thr
      100          105          110
His Lys Trp Phe Thr Pro Arg Val Ser Gly Thr Val Pro Gly Ala Arg
      115          120          125
Asp Gly His Ser Ala Cys Val Leu Gly Lys Ile Met Tyr Ile Phe Gly
      130          135          140
Gly Tyr Glu Gln Gln Ala Asp Cys Phe Ser Asn Asp Ile His Lys Leu
      145          150          155          160
Asp Thr Ser Thr Met Thr Trp Thr Leu Ile Cys Thr Lys Gly Ser Pro
      165          170          175
Ala Arg Trp Arg Asp Phe His Ser Ala Thr Met Leu Gly Ser His Met
      180          185          190
Tyr Val Phe Gly Gly Arg Ala Asp Arg Phe Gly Pro Phe His Ser Asn
      195          200          205
Asn Glu Ile Tyr Cys Asn Arg Ile Arg Val Phe Asp Thr Arg Thr Glu
      210          215          220
Ala Trp Leu Asp Cys Pro Pro Thr Pro Val Leu Pro Glu Gly Arg Arg
      225          230          235          240
Ser His Ser Ala Phe Gly Tyr Asn Gly Glu Leu Tyr Ile Phe Gly Gly
      245          250          255
Tyr Asn Ala Arg Leu Asn Arg His Phe His Asp Leu Trp Lys Phe Asn
      260          265          270
Pro Val Ser Phe Thr Trp Lys Lys Ile Glu Pro Lys Gly Lys Gly Pro
      275          280          285
Cys Pro Arg Arg Arg Gln Cys Cys Cys Ile Val Gly Asp Lys Ile Val
      290          295          300
Leu Phe Gly Gly Thr Ser Pro Ser Pro Glu Glu Gly Leu Gly Asp Glu
      305          310          315          320
Phe Asp Leu Ile Asp His Ser Asp Leu His Ile Leu Asp Phe Ser Pro
      325          330          335
Ser Leu Lys Thr Leu Cys Lys Leu Ala Val Ile Gln Tyr Asn Leu Asp
      340          345          350
Gln Ser Cys Leu Pro His Asp Ile Arg Trp Glu Leu Asn Ala Met Thr
      355          360          365
Thr Asn Ser Asn Ile Ser Arg Pro Ile Val Ser Ser His Gly *
      370          375          380          382

```

<210> 448

<211> 429

<212> PRT

<213> Homo sapiens

<400> 448

```

Met Ala Glu Asn Asp Val Asp Asn Glu Leu Leu Asp Tyr Glu Asp Asp
 1          5          10          15
Glu Val Glu Thr Ala Ala Gly Gly Asp Gly Ala Glu Ala Pro Ala Lys
      20          25          30
Lys Asp Val Lys Gly Ser Tyr Val Ser Ile His Ser Ser Gly Phe Arg
      35          40          45

```

```

Asp Phe Leu Leu Lys Pro Glu Leu Leu Arg Ala Ile Val Asp Cys Gly
  50          55          60
Phe Glu His Pro Ser Glu Val Gln His Glu Cys Ile Pro Gln Ala Ile
  65          70          75          80
Leu Gly Met Asp Val Leu Cys Gln Ala Lys Ser Gly Met Gly Lys Thr
          85          90          95
Ala Val Phe Val Leu Ala Thr Leu Gln Gln Leu Glu Pro Val Thr Gly
          100          105          110
Gln Val Ser Val Leu Val Met Cys His Thr Arg Glu Leu Ala Phe Gln
          115          120          125
Ile Ser Lys Glu Tyr Glu Arg Phe Ser Lys Tyr Met Pro Asn Val Lys
          130          135          140
Val Ala Val Phe Phe Gly Gly Leu Ser Ile Lys Lys Asp Glu Glu Val
          145          150          155          160
Leu Lys Lys Asn Cys Pro His Ile Val Val Gly Thr Pro Gly Arg Ile
          165          170          175
Leu Ala Leu Ala Arg Asn Lys Ser Leu Asn Leu Lys His Ile Lys His
          180          185          190
Phe Ile Leu Asp Glu Cys Asp Lys Met Leu Glu Gln Leu Asp Met Arg
          195          200          205
Arg Asp Val Gln Glu Ile Phe Arg Met Thr Pro His Glu Lys Gln Val
          210          215          220
Met Met Phe Ser Ala Thr Leu Ser Lys Glu Ile Arg Pro Val Cys Arg
          225          230          235          240
Lys Phe Met Gln Asp Pro Met Glu Ile Phe Val Asp Asp Glu Thr Lys
          245          250          255
Leu Thr Leu His Gly Leu Gln Gln Tyr Tyr Val Lys Leu Lys Asp Asn
          260          265          270
Glu Lys Asn Arg Lys Leu Phe Asp Leu Leu Asp Val Leu Glu Phe Asn
          275          280          285
Gln Val Val Ile Phe Val Lys Ser Val Gln Arg Cys Ile Ala Leu Ala
          290          295          300
Gln Leu Leu Val Glu Gln Asn Phe Pro Ala Ile Ala Ile His Arg Gly
          305          310          315          320
Met Pro Gln Glu Glu Arg Leu Ser Arg Tyr Gln Gln Phe Lys Asp Phe
          325          330          335
Gln Arg Arg Ile Leu Val Ala Thr Asn Leu Phe Gly Arg Gly Met Asp
          340          345          350
Ile Glu Arg Val Asn Ile Ala Phe Asn Tyr Asp Met Pro Glu Asp Ser
          355          360          365
Asp Thr Tyr Leu His Arg Val Ala Arg Ala Gly Arg Phe Gly Thr Lys
          370          375          380
Gly Leu Ala Ile Thr Phe Val Ser Asp Glu Asn Asp Ala Lys Ile Leu
          385          390          395          400
Asn Asp Val Gln Asp Arg Phe Glu Val Asn Ile Ser Glu Leu Pro Asp
          405          410          415
Glu Ile Asp Ile Ser Ser Tyr Ile Glu Gln Thr Arg *
          420          425          428

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<210> 449

<211> 403

<212> PRT

<213> Homo sapiens

<400> 449

```

Met Ala Glu Asn Asp Val Asp Asn Glu Leu Leu Asp Tyr Glu Asp Asp
  1          5          10          15
Glu Val Glu Thr Ala Ala Gly Gly Asp Gly Ala Glu Ala Pro Ala Lys
          20          25          30
Lys Asp Val Lys Gly Ser Tyr Val Ser Ile His Ser Ser Gly Phe Arg
          35          40          45

```

```

Asp Phe Leu Leu Lys Pro Glu Leu Leu Arg Ala Ile Val Asp Cys Gly
  50          55          60
Phe Glu His Pro Ser Glu Val Gln His Glu Cys Ile Pro Gln Ala Ile
  65          70          75          80
Leu Gly Met Asp Val Leu Cys Gln Ala Lys Ser Gly Met Gly Lys Thr
          85          90          95
Ala Val Phe Val Leu Ala Thr Leu Gln Gln Leu Glu Pro Val Thr Gly
          100          105          110
Gln Val Ser Val Leu Val Met Cys His Thr Arg Glu Leu Ala Phe Gln
          115          120          125
Ile Ser Lys Glu Tyr Glu Arg Phe Ser Lys Tyr Met Pro Asn Val Lys
          130          135          140
Val Ala Val Phe Phe Gly Gly Leu Ser Ile Lys Lys Asp Glu Glu Val
          145          150          155          160
Leu Lys Lys Asn Cys Pro His Ile Val Val Gly Thr Pro Gly Arg Ile
          165          170          175
Leu Ala Leu Ala Arg Asn Lys Ser Leu Asn Leu Lys His Ile Lys His
          180          185          190
Phe Ile Leu Asp Glu Cys Asp Lys Met Leu Glu Gln Leu Asp Met Arg
          195          200          205
Arg Asp Val Gln Glu Ile Phe Arg Met Thr Pro His Glu Lys Gln Val
          210          215          220
Met Met Phe Ser Ala Thr Leu Ser Lys Glu Ile Arg Pro Val Cys Arg
          225          230          235          240
Lys Phe Met Gln Asp Pro Met Glu Ile Phe Val Asp Asp Glu Thr Lys
          245          250          255
Leu Thr Leu His Gly Leu Gln Gln Tyr Tyr Val Lys Leu Lys Asp Asn
          260          265          270
Glu Lys Asn Arg Lys Leu Phe Asp Leu Leu Asp Val Leu Glu Phe Asn
          275          280          285
Gln Val Val Ile Phe Val Lys Ser Val Gln Arg Cys Ile Ala Leu Ala
          290          295          300
Gln Gln Phe Lys Asp Phe Gln Arg Arg Ile Leu Val Ala Thr Asn Leu
          305          310          315          320
Phe Gly Arg Gly Met Asp Ile Glu Arg Val Asn Ile Ala Phe Asn Tyr
          325          330          335
Asp Met Pro Glu Asp Ser Asp Thr Tyr Leu His Arg Val Ala Arg Ala
          340          345          350
Gly Arg Phe Gly Thr Lys Gly Leu Ala Ile Thr Phe Val Ser Asp Glu
          355          360          365
Asn Asp Ala Lys Ile Leu Asn Asp Val Gln Asp Arg Phe Glu Val Asn
          370          375          380
Ile Ser Glu Leu Pro Asp Glu Ile Asp Ile Ser Ser Tyr Ile Glu Gln
          385          390          395          400
Thr Arg *
          402

```

<210> 450

<211> 352

<212> PRT

<213> Homo sapiens

<400> 450

```

Met Arg Ser Leu Gly Ala Leu Leu Leu Leu Leu Ser Ala Cys Leu Ala
  1          5          10          15
Val Ser Ala Gly Pro Val Pro Thr Pro Pro Asp Asn Ile Gln Val Gln
          20          25          30
Glu Asn Phe Asn Ile Ser Arg Ile Tyr Gly Lys Trp Tyr Asn Leu Ala
          35          40          45
Ile Gly Ser Thr Cys Pro Trp Leu Lys Lys Ile Met Asp Arg Met Thr
          50          55          60

```

```

Val Ser Thr Leu Val Leu Gly Glu Gly Ala Thr Glu Ala Glu Ile Ser
65      70      75      80
Met Thr Ser Thr Arg Trp Arg Lys Gly Val Cys Glu Glu Thr Ser Gly
      85      90      95
Ala Tyr Glu Lys Thr Asp Thr Asp Gly Lys Phe Leu Tyr His Lys Ser
      100      105      110
Lys Trp Asn Ile Thr Met Glu Ser Tyr Val Val His Thr Asn Tyr Asp
      115      120      125
Glu Tyr Ala Ile Phe Leu Thr Lys Lys Phe Ser Arg His His Gly Pro
      130      135      140
Thr Ile Thr Ala Lys Leu Tyr Gly Arg Ala Pro Gln Leu Arg Glu Thr
145      150      155      160
Leu Leu Gln Asp Phe Arg Val Val Ala Gln Gly Val Gly Ile Pro Glu
      165      170      175
Asp Ser Ile Phe Thr Met Ala Asp Arg Gly Glu Cys Val Pro Gly Glu
      180      185      190
Gln Glu Pro Glu Pro Ile Leu Ile Pro Arg Val Arg Arg Ala Val Leu
      195      200      205
Pro Gln Glu Glu Glu Gly Ser Gly Gly Gly Gln Leu Val Thr Glu Val
      210      215      220
Thr Lys Lys Glu Asp Ser Cys Gln Leu Gly Tyr Ser Ala Gly Pro Cys
225      230      235      240
Met Gly Met Thr Ser Arg Tyr Phe Tyr Asn Gly Thr Ser Met Ala Cys
      245      250      255
Glu Thr Phe Gln Tyr Gly Gly Cys Met Gly Asn Gly Asn Asn Phe Val
      260      265      270
Thr Glu Lys Glu Cys Leu Gln Thr Cys Arg Thr Val Ala Ala Cys Asn
      275      280      285
Leu Pro Ile Val Arg Gly Pro Cys Arg Ala Phe Ile Gln Leu Trp Ala
      290      295      300
Phe Asp Ala Val Lys Gly Lys Cys Val Leu Phe Pro Tyr Gly Gly Cys
305      310      315      320
Gln Gly Asn Gly Asn Lys Phe Tyr Ser Glu Lys Glu Cys Arg Glu Tyr
      325      330      335
Cys Gly Val Pro Gly Asp Gly Asp Glu Glu Leu Leu Arg Phe Ser Asn
      340      345      350      352

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<210> 451
 <211> 456
 <212> PRT
 <213> Homo sapiens

```

<400> 451
Met Phe Leu Leu Leu Pro Phe Asp Ser Leu Ile Val Asn Leu Leu Gly
1      5      10      15
Ile Ser Leu Thr Val Leu Phe Thr Leu Leu Leu Val Phe Ile Ile Val
      20      25      30
Pro Ala Ile Phe Gly Val Ser Phe Gly Ile Arg Lys Leu Tyr Met Lys
      35      40      45
Ser Leu Leu Lys Ile Phe Ala Trp Ala Thr Leu Arg Met Glu Arg Gly
      50      55      60
Ala Lys Glu Lys Asn His Gln Leu Tyr Lys Pro Tyr Thr Asn Gly Ile
65      70      75      80
Ile Ala Lys Asp Pro Thr Ser Leu Glu Glu Glu Ile Lys Glu Ile Arg
      85      90      95
Arg Ser Gly Ser Ser Lys Ala Leu Asp Asn Thr Pro Glu Phe Glu Leu
      100      105      110
Ser Asp Ile Phe Tyr Phe Cys Arg Lys Gly Met Glu Thr Ile Met Asp
      115      120      125

```

Asp Glu Val Thr Lys Arg Phe Ser Ala Glu Glu Leu Glu Ser Trp Asn
 130 135 140
 Leu Leu Ser Arg Thr Asn Tyr Asn Phe Gln Tyr Ile Ser Leu Arg Leu
 145 150 155 160
 Thr Val Leu Trp Gly Leu Gly Val Leu Ile Arg Tyr Cys Phe Leu Leu
 165 170 175
 Pro Leu Arg Ile Ala Leu Ala Phe Thr Gly Ile Ser Leu Leu Val Val
 180 185 190
 Gly Thr Thr Val Val Gly Tyr Leu Pro Asn Gly Arg Phe Lys Glu Phe
 195 200 205
 Met Ser Lys His Val His Leu Met Cys Tyr Arg Ile Cys Val Arg Ala
 210 215 220
 Leu Thr Ala Ile Ile Thr Tyr His Asp Arg Glu Asn Arg Pro Arg Asn
 225 230 235 240
 Gly Gly Ile Cys Val Ala Asn His Thr Ser Pro Ile Asp Val Ile Ile
 245 250 255
 Leu Ala Ser Asp Gly Tyr Tyr Ala Met Val Gly Gln Val His Gly Gly
 260 265 270
 Leu Met Gly Val Ile Gln Arg Ala Met Val Lys Ala Cys Pro His Val
 275 280 285
 Trp Phe Glu Arg Ser Glu Val Lys Asp Arg His Leu Val Ala Lys Arg
 290 295 300
 Leu Thr Glu His Val Gln Asp Lys Ser Lys Leu Pro Ile Leu Ile Phe
 305 310 315 320
 Pro Glu Gly Thr Cys Ile Asn Asn Thr Ser Val Met Met Phe Lys Lys
 325 330 335
 Gly Ser Phe Glu Ile Gly Ala Thr Val Tyr Pro Val Ala Ile Lys Tyr
 340 345 350
 Asp Pro Gln Phe Gly Asp Ala Phe Trp Asn Ser Ser Lys Tyr Gly Met
 355 360 365
 Val Thr Tyr Leu Leu Arg Met Met Thr Ser Trp Ala Ile Val Cys Ser
 370 375 380
 Val Trp Tyr Leu Pro Pro Met Thr Arg Glu Ala Asp Glu Asp Ala Val
 385 390 395 400
 Gln Phe Ala Asn Arg Val Lys Ser Ala Ile Ala Arg Gln Gly Gly Leu
 405 410 415
 Val Asp Leu Leu Trp Asp Gly Gly Leu Lys Arg Glu Lys Val Lys Asp
 420 425 430
 Thr Phe Lys Glu Glu Gln Gln Lys Leu Tyr Ser Lys Met Ile Val Gly
 435 440 445
 Asn His Lys Asp Arg Ser Arg Ser
 450 455 456

<210> 452

<211> 468

<212> PRT

<213> Homo sapiens

<400> 452

Met Leu Leu Leu Leu Leu Leu Pro Leu Leu Trp Gly Arg Glu Arg Val
 1 5 10 15
 Glu Gly Gln Lys Ser Asn Arg Lys Asp Tyr Ser Leu Thr Met Gln Ser
 20 25 30
 Ser Val Thr Val Gln Glu Gly Met Cys Val His Val Arg Cys Ser Phe
 35 40 45
 Ser Tyr Pro Val Asp Ser Gln Thr Asp Ser Asp Pro Val His Gly Tyr
 50 55 60
 Trp Phe Arg Ala Gly Asn Asp Ile Ser Trp Lys Ala Pro Val Ala Thr
 65 70 75 80
 Asn Asn Pro Ala Trp Ala Val Gln Glu Glu Thr Arg Asp Arg Phe His
 85 90 95

```

Leu Leu Gly Asp Pro Gln Thr Lys Asn Cys Thr Leu Ser Ile Arg Asp
100 105 110
Ala Arg Met Ser Asp Ala Gly Arg Tyr Phe Phe Arg Met Glu Lys Gly
115 120 125
Asn Ile Lys Trp Asn Tyr Lys Tyr Asp Gln Leu Ser Val Asn Val Thr
130 135 140
Ala Leu Thr His Arg Pro Asn Ile Leu Ile Pro Gly Thr Leu Glu Ser
145 150 155 160
Gly Cys Phe Gln Asn Leu Thr Cys Ser Val Pro Trp Ala Cys Glu Gln
165 170 175
Gly Thr Pro Pro Met Ile Ser Trp Met Gly Thr Ser Val Ser Pro Leu
180 185 190
His Pro Ser Thr Thr Arg Ser Ser Val Leu Thr Leu Ile Pro Gln Pro
195 200 205
Gln His His Gly Thr Ser Leu Thr Cys Gln Val Thr Leu Pro Gly Ala
210 215 220
Gly Val Thr Thr Asn Arg Thr Ile Gln Leu Asn Val Ser Tyr Pro Pro
225 230 235 240
Gln Asn Leu Thr Val Thr Val Phe Gln Gly Glu Gly Thr Ala Ser Thr
245 250 255
Ala Leu Gly Asn Ser Ser Ser Leu Ser Val Leu Glu Gly Gln Ser Leu
260 265 270
Arg Leu Val Cys Ala Val Asp Ser Asn Pro Pro Ala Arg Leu Ser Trp
275 280 285
Thr Trp Arg Ser Leu Thr Leu Tyr Pro Ser Gln Pro Ser Asn Pro Leu
290 295 300
Val Leu Glu Leu Gln Val His Leu Gly Asp Glu Gly Glu Phe Thr Cys
305 310 315 320
Arg Ala Gln Asn Ser Leu Gly Ser Gln His Val Ser Leu Asn Leu Ser
325 330 335
Leu Gln Gln Glu Tyr Thr Gly Lys Met Arg Pro Val Ser Gly Val Leu
340 345 350
Leu Gly Ala Val Gly Gly Ala Gly Ala Thr Ala Leu Val Phe Leu Ser
355 360 365
Phe Cys Val Ile Phe Ile Val Val Arg Ser Cys Arg Lys Lys Ser Ala
370 375 380
Arg Pro Ala Ala Asp Val Gly Asp Ile Gly Met Lys Asp Ala Asn Thr
385 390 395 400
Ile Arg Gly Ser Ala Ser Gln Gly Asn Leu Thr Glu Ser Trp Ala Asp
405 410 415
Asp Asn Pro Arg His His Gly Leu Ala Ala His Ser Ser Gly Glu Glu
420 425 430
Arg Glu Ile Gln Tyr Ala Pro Leu Ser Phe His Lys Gly Glu Pro Gln
435 440 445
Asp Leu Ser Gly Gln Glu Ala Thr Asn Asn Glu Tyr Ser Glu Ile Lys
450 455 460
Ile Pro Lys *
465 467

```

<210> 453

<211> 375

<212> PRT

<213> Homo sapiens

<400> 453

```

Met Leu Leu Leu Leu Leu Pro Leu Leu Trp Gly Arg Glu Arg Val
1 5 10 15
Glu Gly Gln Lys Ser Asn Arg Lys Asp Tyr Ser Leu Thr Met Gln Ser
20 25 30
Ser Val Thr Val Gln Glu Gly Met Cys Val His Val Arg Cys Ser Phe
35 40 45

```

Ser Tyr Pro Val Asp Ser Gln Thr Asp Ser Asp Pro Val His Gly Tyr
 50 55 60
 Trp Phe Arg Ala Gly Asn Asp Ile Ser Trp Lys Ala Pro Val Ala Thr
 65 70 75 80
 Asn Asn Pro Ala Trp Ala Val Gln Glu Glu Thr Arg Asp Arg Phe His
 85 90 95
 Leu Leu Gly Asp Pro Gln Thr Lys Asn Cys Thr Leu Ser Ile Arg Asp
 100 105 110
 Ala Arg Met Ser Asp Ala Gly Arg Tyr Phe Phe Arg Met Glu Lys Gly
 115 120 125
 Asn Ile Lys Trp Asn Tyr Lys Tyr Asp Gln Leu Ser Val Asn Val Thr
 130 135 140
 Asp Pro Pro Gln Asn Leu Thr Val Thr Val Phe Gln Gly Glu Gly Thr
 145 150 155 160
 Ala Ser Thr Ala Leu Gly Asn Ser Ser Ser Leu Ser Val Leu Glu Gly
 165 170 175
 Gln Ser Leu Arg Leu Val Cys Ala Val Asp Ser Asn Pro Pro Ala Arg
 180 185 190
 Leu Ser Trp Thr Trp Arg Ser Leu Thr Leu Tyr Pro Ser Gln Pro Ser
 195 200 205
 Asn Pro Leu Val Leu Glu Leu Gln Val His Leu Gly Asp Glu Gly Glu
 210 215 220
 Phe Thr Cys Arg Ala Gln Asn Ser Leu Gly Ser Gln His Val Ser Leu
 225 230 235 240
 Asn Leu Ser Leu Gln Gln Glu Tyr Thr Gly Lys Met Arg Pro Val Ser
 245 250 255
 Gly Val Leu Leu Gly Ala Val Gly Gly Ala Gly Ala Thr Ala Leu Val
 260 265 270
 Phe Leu Ser Phe Cys Val Ile Phe Ile Val Val Arg Ser Cys Arg Lys
 275 280 285
 Lys Ser Ala Arg Pro Ala Ala Asp Val Gly Asp Ile Gly Met Lys Asp
 290 295 300
 Ala Asn Thr Ile Arg Gly Ser Ala Ser Gln Gly Asn Leu Thr Glu Ser
 305 310 315 320
 Trp Ala Asp Asp Asn Pro Arg His His Gly Leu Ala Ala His Ser Ser
 325 330 335
 Gly Glu Glu Arg Glu Ile Gln Tyr Ala Pro Leu Ser Phe His Lys Gly
 340 345 350
 Glu Pro Gln Asp Leu Ser Gly Gln Glu Ala Thr Asn Asn Glu Tyr Ser
 355 360 365
 Glu Ile Lys Ile Pro Lys *
 370 374

<210> 454

<211> 3675

<212> PRT

<213> Homo sapiens

<400> 454

Met Ala Gly Gln Pro His Ser Pro Arg Glu Leu Leu Gly Ala Ala Gly
 1 5 10 15
 His Arg Ser Arg Arg Pro Ser Thr Glu Leu Arg Val Pro Pro Ser Pro
 20 25 30
 Ser Leu Thr Met Asp Ser Gln Tyr Glu Thr Gly His Ile Arg Lys Leu
 35 40 45
 Gln Ala Arg His Met Gln Met Gln Glu Lys Thr Phe Thr Lys Trp Ile
 50 55 60
 Asn Asn Val Phe Gln Cys Gly Gln Ala Gly Ile Lys Ile Arg Asn Leu
 65 70 75 80
 Tyr Thr Glu Leu Ala Asp Gly Ile His Leu Leu Arg Leu Leu Glu Leu
 85 90 95


```

Ile Ser Gly Glu Ala Leu Pro Pro Pro Ser Arg Gly Arg Leu Arg Val
      100      105      110
His Phe Leu Glu Asn Ser Ser Arg Ala Leu Ala Phe Leu Arg Ala Lys
      115      120      125
Val Pro Val Pro Leu Ile Gly Pro Glu Asn Ile Val Asp Gly Asp Gln
      130      135      140
Thr Leu Ile Leu Gly Leu Ile Trp Val Ile Ile Leu Arg Phe Gln Ile
145      150      155      160
Ser His Ile Ser Leu Asp Lys Glu Glu Phe Gly Ala Ser Ala Ala Leu
      165      170      175
Leu Ser Thr Lys Glu Ala Leu Leu Val Trp Cys Gln Arg Lys Thr Ala
      180      185      190
Ser Tyr Thr Asn Val Asn Ile Thr Asp Phe Ser Arg Ser Trp Ser Asp
      195      200      205
Gly Leu Gly Phe Asn Ala Leu Ile His Ala His Arg Pro Asp Leu Leu
      210      215      220
Asp Tyr Gly Ser Leu Arg Pro Asp Arg Pro Leu His Asn Leu Ala Phe
225      230      235      240
Ala Phe Leu Val Ala Glu Gln Glu Leu Gly Ile Ala Gln Leu Leu Asp
      245      250      255
Pro Glu Asp Val Ala Ala Ala Gln Pro Asp Glu Arg Ser Ile Met Thr
      260      265      270
Tyr Val Ser Leu Tyr Tyr His Tyr Cys Ser Arg Leu His Gln Gly Gln
      275      280      285
Thr Val Gln Arg Arg Leu Thr Lys Ile Leu Leu Gln Leu Gln Glu Thr
      290      295      300
Glu Leu Leu Gln Thr Gln Tyr Glu Gln Leu Val Ala Asp Leu Leu Arg
305      310      315      320
Trp Ile Ala Glu Lys Gln Met Gln Leu Glu Ala Arg Asp Phe Pro Asp
      325      330      335
Ser Leu Pro Ala Met Arg Gln Leu Leu Ala Ala Phe Thr Ile Phe Arg
      340      345      350
Thr Gln Glu Lys Pro Pro Arg Leu Gln Gln Arg Gly Ala Ala Glu Ala
      355      360      365
Leu Leu Phe Arg Leu Gln Thr Ala Leu Gln Ala Gln Asn Arg Arg Pro
      370      375      380
Phe Leu Pro His Glu Gly Leu Gly Leu Ala Glu Leu Ser Gln Cys Trp
385      390      395      400
Ala Gly Leu Glu Trp Ala Glu Ala Ala Arg Ser Gln Ala Leu Gln Gln
      405      410      415
Arg Leu Leu Gln Leu Gln Arg Leu Glu Thr Leu Ala Arg Arg Phe Gln
      420      425      430
Arg Lys Ala Ala Leu Arg Glu Ser Phe Leu Lys Asp Ala Glu Gln Val
      435      440      445
Leu Asp Gln Ala Arg Ala Pro Pro Ala Ser Leu Ala Thr Val Glu Ala
      450      455      460
Ala Val Gln Arg Leu Gly Met Leu Glu Ala Gly Ile Leu Pro Gln Glu
465      470      475      480
Gly Arg Phe Gln Ala Leu Ala Glu Ile Ala Asp Ile Leu Arg Gln Glu
      485      490      495
Gln Tyr His Ser Trp Ala Asp Val Ala Arg Arg Gln Glu Glu Val Thr
      500      505      510
Val Arg Trp Gln Arg Leu Leu Gln His Leu Gln Gly Gln Arg Lys Gln
      515      520      525
Val Ala Asp Met Gln Ala Val Leu Ser Leu Leu Gln Glu Val Glu Ala
      530      535      540
Ala Ser His Gln Leu Glu Leu Gln Glu Pro Ala Arg Ser Thr Ala
545      550      555      560
Cys Gly Gln Gln Leu Ala Glu Val Val Glu Leu Leu Gln Arg His Asp
      565      570      575
Leu Leu Glu Ala Gln Val Ser Ala His Gly Ala His Val Ser His Leu
      580      585      590
Ala Gln Gln Thr Ala Glu Leu Asp Ser Ser Leu Gly Thr Ser Val Glu
595      600      605

```

Val Leu Gln Ala Lys Ala Arg Thr Leu Ala Gln Leu Gln Gln Ser Leu
 610 615 620
 Val Ala Leu Val Arg Ala Arg Arg Ala Leu Leu Glu Gln Thr Leu Gln
 625 630 635 640
 Arg Ala Glu Phe Leu Arg Asn Cys Glu Glu Glu Ala Trp Leu Lys
 645 650 655
 Glu Cys Gly Gln Arg Val Gly Asn Ala Ala Leu Gly Arg Asp Leu Ser
 660 665 670
 Gln Ile Ala Gly Ala Leu Gln Lys His Lys Ala Leu Glu Ala Glu Val
 675 680 685
 His Arg His Gln Ala Val Cys Val Asp Leu Val Arg Arg Gly Arg Asp
 690 695 700
 Leu Ser Ala Arg Arg Pro Pro Thr Gln Pro Asp Pro Gly Glu Arg Ala
 705 710 715 720
 Glu Ala Val Gln Gly Gly Trp Gln Leu Leu Gln Thr Arg Val Val Gly
 725 730 735
 Arg Gly Ala Arg Leu Gln Thr Ala Leu Leu Val Leu Gln Tyr Phe Ala
 740 745 750
 Asp Ala Ala Glu Ala Ala Ser Trp Leu Arg Glu Arg Arg Ser Ser Leu
 755 760 765
 Glu Arg Ala Ser Cys Gly Gln Asp Gln Ala Ala Ala Glu Thr Leu Leu
 770 775 780
 Arg Arg His Val Arg Leu Glu Arg Val Leu Arg Ala Phe Ala Ala Glu
 785 790 795 800
 Leu Arg Arg Leu Glu Glu Gln Gly Arg Ala Ala Ser Ala Arg Ala Ser
 805 810 815
 Leu Phe Thr Val Asn Ser Ala Leu Ser Pro Pro Gly Glu Ser Leu Arg
 820 825 830
 Asn Pro Gly Pro Trp Ser Glu Ala Ser Cys His Pro Gly Pro Gly Asp
 835 840 845
 Ala Trp Lys Met Ala Leu Pro Ala Glu Pro Asp Pro Asp Phe Asp Pro
 850 855 860
 Asn Thr Ile Leu Gln Thr Gln Asp His Leu Ser Gln Asp Tyr Glu Ser
 865 870 875 880
 Leu Arg Ala Leu Ala Gln Leu Arg Arg Ala Arg Leu Glu Glu Ala Met
 885 890 895
 Ala Leu Phe Gly Phe Cys Ser Ser Cys Gly Glu Leu Gln Leu Trp Leu
 900 905 910
 Glu Lys Gln Thr Val Leu Leu Gln Arg Val Gln Pro Gln Ala Asp Thr
 915 920 925
 Leu Glu Val Met Gln Leu Lys Tyr Glu Asn Phe Leu Thr Ala Leu Ala
 930 935 940
 Val Gly Lys Gly Leu Trp Ala Glu Val Ser Ser Ser Ala Glu Gln Leu
 945 950 955 960
 Arg Gln Arg Tyr Pro Gly Asn Ser Thr Gln Ile Gln Arg Gln Gln Glu
 965 970 975
 Glu Leu Ser Gln Arg Trp Gly Gln Leu Glu Ala Leu Lys Arg Glu Lys
 980 985 990
 Ala Val Gln Leu Ala His Ser Val Glu Val Cys Ser Phe Leu Gln Glu
 995 1000 1005
 Cys Gly Pro Thr Gln Val Gln Leu Arg Asp Val Leu Leu Gln Leu Glu
 1010 1015 1020
 Ala Leu Gln Pro Gly Ser Ser Glu Asp Thr Arg His Ala Leu Gln Leu
 1025 1030 1035 1040
 Ala Gln Lys Lys Thr Leu Val Leu Glu Arg Arg Val Tyr Phe Leu Gln
 1045 1050 1055
 Ser Val Val Val Lys Val Glu Glu Pro Gly Tyr Ala Glu Ser Gln Pro
 1060 1065 1070
 Leu Gln Gly Gln Val Glu Thr Leu Gln Gly Leu Leu Lys Gln Val Gln
 1075 1080 1085
 Glu Gln Val Ala Gln Arg Ala Arg Arg Gln Ala Glu Thr Gln Ala Arg
 1090 1095 1100
 Gln Ser Phe Leu Gln Glu Ser Gln Gln Leu Leu Trp Ala Glu Ser
 1105 1110 1115 1120

Val Gln Ala Gln Leu Arg Ser Lys Glu Val Ser Val Asp Val Ala Ser
 1125 1130 1135
 Ala Gln Arg Leu Leu Arg Glu His Gln Asp Leu Leu Glu Glu Ile His
 1140 1145 1150
 Leu Trp Gln Glu Arg Leu Gln Gln Leu Asp Ala Gln Ser Gln Pro Met
 1155 1160 1165
 Ala Ala Leu Asp Cys Pro Asp Ser Gln Glu Val Pro Asn Thr Leu Arg
 1170 1175 1180
 Val Leu Gly Gln Gln Gly Gln Glu Leu Lys Val Leu Trp Glu Gln Arg
 1185 1190 1195 1200
 Gln Gln Trp Leu Gln Glu Gly Leu Glu Leu Gln Lys Phe Gly Arg Glu
 1205 1210 1215
 Val Asp Gly Phe Thr Ala Thr Cys Ala Asn His Gln Ala Trp Leu His
 1220 1225 1230
 Leu Asp Asn Leu Gly Glu Asp Val Arg Glu Ala Leu Ser Leu Leu Gln
 1235 1240 1245
 Gln His Arg Glu Phe Gly Arg Leu Leu Ser Thr Leu Gly Pro Arg Ala
 1250 1255 1260
 Glu Ala Leu Arg Ala His Gly Glu Lys Leu Val Gln Ser Gln His Pro
 1265 1270 1275 1280
 Ala Ala His Thr Val Arg Glu Gln Leu Gln Ser Ile Gln Ala Gln Trp
 1285 1290 1295
 Thr Arg Leu Gln Gly Arg Ser Glu Gln Arg Arg Arg Gln Leu Leu Ala
 1300 1305 1310
 Ser Leu Gln Leu Gln Glu Trp Lys Gln Asp Val Ala Glu Leu Met Gln
 1315 1320 1325
 Trp Met Glu Glu Lys Gly Leu Met Ala Ala His Glu Pro Ser Gly Ala
 1330 1335 1340
 Arg Arg Asn Ile Leu Gln Thr Leu Lys Arg His Glu Ala Ala Glu Ser
 1345 1350 1355 1360
 Glu Leu Leu Ala Thr Arg Arg His Val Glu Ala Leu Gln Gln Val Gly
 1365 1370 1375
 Arg Glu Leu Leu Ser Arg Arg Pro Cys Gly Gln Glu Asp Ile Gln Thr
 1380 1385 1390
 Arg Leu Gln Gly Leu Arg Ser Lys Trp Glu Ala Leu Asn Arg Lys Met
 1395 1400 1405
 Thr Glu Arg Gly Asp Glu Leu Gln Gln Ala Gly Gln Gln Glu Gln Leu
 1410 1415 1420
 Leu Arg Gln Leu Gln Asp Ala Lys Glu Gln Leu Glu Gln Leu Glu Gly
 1425 1430 1435 1440
 Ala Leu Gln Ser Ser Glu Thr Gly Gln Asp Leu Arg Ser Ser Gln Arg
 1445 1450 1455
 Leu Gln Lys Arg His Gln Gln Leu Glu Ser Glu Ser Arg Thr Leu Ala
 1460 1465 1470
 Ala Lys Met Ala Ala Leu Ala Ser Met Ala His Gly Met Ala Ala Ser
 1475 1480 1485
 Pro Ala Ile Leu Glu Glu Thr Gln Lys His Leu Arg Arg Leu Glu Leu
 1490 1495 1500
 Leu Gln Gly His Leu Ala Ile Arg Gly Leu Gln Leu Gln Ala Ser Val
 1505 1510 1515 1520
 Glu Leu His Gln Phe Cys His Leu Ser Asn Met Glu Leu Ser Trp Val
 1525 1530 1535
 Ala Glu His Met Pro His Gly Ser Pro Thr Ser Tyr Thr Glu Cys Leu
 1540 1545 1550
 Asn Gly Ala Gln Ser Leu His Arg Lys His Lys Glu Leu Gln Val Glu
 1555 1560 1565
 Val Lys Ala His Gln Gly Gln Val Gln Arg Val Leu Ser Ser Gly Arg
 1570 1575 1580
 Ser Leu Ala Ala Ser Gly His Pro Gln Ala Gln His Ile Val Glu Gln
 1585 1590 1595 1600
 Cys Gln Glu Leu Glu Gly His Trp Ala Glu Leu Glu Arg Ala Cys Glu
 1605 1610 1615
 Ala Arg Ala Gln Cys Leu Gln Gln Ala Val Thr Phe Gln Gln Tyr Phe
 1620 1625 1630

Leu Asp Val Ser Glu Leu Glu Gly Trp Val Glu Glu Lys Arg Pro Leu
 1635 1640 1645
 Val Ser Ser Arg Asp Tyr Gly Arg Asp Glu Ala Ala Thr Leu Arg Leu
 1650 1655 1660
 Ile Asn Lys His Gln Ala Leu Gln Glu Glu Leu Ala Ile Tyr Trp Ser
 1665 1670 1675 1680
 Ser Met Glu Glu Leu Asp Gln Thr Ala Gln Thr Leu Thr Gly Pro Glu
 1685 1690 1695
 Val Pro Glu Gln Gln Arg Val Val Gln Glu Arg Leu Arg Glu Gln Leu
 1700 1705 1710
 Arg Ala Leu Gln Glu Leu Ala Ala Thr Arg Asp Arg Glu Leu Glu Gly
 1715 1720 1725
 Thr Leu Arg Leu His Glu Phe Leu Arg Glu Ala Glu Asp Leu Gln Gly
 1730 1735 1740
 Trp Leu Ala Ser Gln Lys Gln Ala Ala Lys Gly Gly Glu Ser Leu Gly
 1745 1750 1755 1760
 Glu Asp Pro Glu His Ala Leu His Leu Cys Thr Lys Phe Ala Lys Phe
 1765 1770 1775
 Gln His Gln Val Glu Met Gly Ser Gln Arg Val Ala Ala Cys Arg Leu
 1780 1785 1790
 Leu Ala Glu Ser Leu Leu Glu Arg Gly His Ser Ala Gly Pro Met Val
 1795 1800 1805
 Arg Gln Arg Gln Gln Asp Leu Gln Thr Ala Trp Ser Glu Leu Trp Glu
 1810 1815 1820
 Leu Thr Gln Ala Arg Gly His Ala Leu Arg Asp Thr Glu Thr Thr Leu
 1825 1830 1835 1840
 Arg Val His Arg Asp Leu Leu Glu Val Leu Thr Gln Val Gln Glu Lys
 1845 1850 1855
 Ala Thr Ser Leu Pro Asn Asn Val Ala Arg Asp Leu Cys Gly Leu Glu
 1860 1865 1870
 Ala Gln Leu Arg Ser His Gln Gly Leu Glu Arg Glu Leu Val Gly Thr
 1875 1880 1885
 Glu Arg Gln Leu Gln Glu Leu Glu Thr Ala Gly Arg Val Gln Lys
 1890 1895 1900
 Leu Cys Pro Gly Pro Gln Ala His Ala Val Gln Gln Arg Gln Gln Ala
 1905 1910 1915 1920
 Val Thr Gln Ala Trp Ala Val Leu Gln Arg Arg Met Glu Gln Arg Arg
 1925 1930 1935
 Ala Gln Leu Glu Arg Ala Arg Leu Leu Ala Arg Phe Arg Thr Ala Val
 1940 1945 1950
 Arg Asp Tyr Ala Ser Trp Ala Ala Arg Val Arg Gln Asp Leu Gln Val
 1955 1960 1965
 Glu Glu Ser Ser Gln Glu Pro Ser Ser Gly Pro Leu Lys Leu Ser Ala
 1970 1975 1980
 His Gln Trp Leu Arg Ala Glu Leu Glu Ala Arg Glu Lys Leu Trp Gln
 1985 1990 1995 2000
 Gln Ala Thr Gln Leu Gly Gln Gln Ala Leu Leu Ala Ala Gly Thr Pro
 2005 2010 2015
 Thr Lys Glu Val Gln Glu Glu Leu Arg Ala Leu Gln Asp Gln Arg Asp
 2020 2025 2030
 Gln Val Tyr Gln Thr Trp Ala Arg Lys Gln Glu Arg Leu Gln Ala Glu
 2035 2040 2045
 Gln Gln Glu Gln Leu Phe Leu Arg Glu Cys Gly Arg Leu Glu Glu Ile
 2050 2055 2060
 Leu Ala Ala Gln Glu Val Ser Leu Lys Thr Ser Ala Leu Gly Ser Ser
 2065 2070 2075 2080
 Val Glu Glu Val Glu Gln Leu Ile Arg Lys His Glu Val Phe Leu Lys
 2085 2090 2095
 Val Leu Thr Ala Gln Asp Lys Lys Glu Ala Ala Leu Arg Glu Arg Leu
 2100 2105 2110
 Lys Thr Leu Arg Arg Pro Arg Val Arg Asp Arg Leu Pro Ile Leu Leu
 2115 2120 2125
 Gln Arg Arg Met Arg Val Lys Glu Leu Ala Glu Ser Arg Gly His Ala
 2130 2135 2140

Leu His Ala Ser Leu Leu Met Ala Ser Phe Thr Gln Ala Ala Thr Gln
 2145 2150 2155 2160
 Ala Glu Asp Trp Ile Gln Ala Trp Ala Gln Gln Leu Lys Glu Pro Val
 2165 2170 2175
 Pro Pro Gly Asp Leu Arg Asp Lys Leu Lys Pro Leu Leu Lys His Gln
 2180 2185 2190
 Ala Phe Glu Ala Glu Val Gln Ala His Glu Glu Val Met Thr Ser Val
 2195 2200 2205
 Ala Lys Lys Gly Glu Ala Leu Leu Ala Gln Ser His Pro Arg Ala Gly
 2210 2215 2220
 Glu Val Ser Gln Arg Leu Gln Gly Leu Arg Lys His Trp Glu Asp Leu
 2225 2230 2235 2240
 Arg Gln Ala Met Ala Leu Arg Gly Gln Glu Leu Glu Asp Arg Arg Asn
 2245 2250 2255
 Phe Leu Glu Phe Leu Gln Arg Val Asp Leu Ala Glu Ala Trp Ile Gln
 2260 2265 2270
 Glu Lys Glu Val Lys Met Asn Val Gly Asp Leu Gly Gln Asp Leu Glu
 2275 2280 2285
 His Cys Leu Gln Leu Arg Arg Arg Leu Arg Glu Phe Arg Gly Asn Ser
 2290 2295 2300
 Ala Gly Asp Thr Val Gly Asp Ala Cys Ile Arg Ser Ile Ser Asp Leu
 2305 2310 2315 2320
 Ser Leu Gln Leu Lys Asn Arg Asp Pro Glu Glu Val Lys Ile Ile Cys
 2325 2330 2335
 Gln Arg Arg Ser Gln Leu Asn Asn Arg Trp Ala Ser Phe His Gly Asn
 2340 2345 2350
 Leu Leu Arg Tyr Gln Gln Gln Leu Glu Gly Ala Leu Glu Ile His Val
 2355 2360 2365
 Leu Ser Arg Glu Leu Asp Asn Val Thr Lys Arg Ile Gln Glu Lys Glu
 2370 2375 2380
 Ala Leu Ile Gln Ala Leu Asp Cys Gly Lys Asp Leu Glu Ser Val Gln
 2385 2390 2395 2400
 Arg Leu Leu Arg Lys His Glu Glu Leu Glu Arg Glu Val His Pro Ile
 2405 2410 2415
 Gln Ala Gln Val Glu Ser Leu Glu Arg Glu Val Gly Arg Leu Cys Gln
 2420 2425 2430
 Arg Ser Pro Glu Ala Ala His Gly Leu Arg His Arg Gln Gln Glu Val
 2435 2440 2445
 Ala Glu Ser Trp Trp Gln Leu Arg Ser Arg Ala Gln Lys Arg Arg Glu
 2450 2455 2460
 Ala Leu Asp Ala Leu His Gln Ala Gln Lys Leu Gln Ala Met Leu Gln
 2465 2470 2475 2480
 Glu Leu Leu Val Ser Ala Gln Arg Leu Arg Ala Gln Met Asp Thr Ser
 2485 2490 2495
 Pro Ala Pro Arg Ser Pro Val Glu Ala Arg Arg Met Leu Glu Glu His
 2500 2505 2510
 Gln Glu Cys Lys Ala Glu Leu Asp Ser Trp Thr Asp Ser Ile Ser Leu
 2515 2520 2525
 Ala Arg Ser Thr Gly Gln Gln Leu Leu Thr Ala Gly His Pro Phe Ser
 2530 2535 2540
 Ser Asp Ile Arg Gln Val Leu Ala Gly Leu Glu Gln Glu Leu Ser Ser
 2545 2550 2555 2560
 Leu Glu Gly Ala Trp Gln Glu His Gln Leu Gln Gln Ala Leu
 2565 2570 2575
 Glu Leu Gln Leu Phe Leu Ser Ser Val Glu Lys Met Glu Arg Trp Leu
 2580 2585 2590
 Cys Ser Lys Glu Asp Ser Leu Ala Ser Glu Gly Leu Trp Asp Pro Leu
 2595 2600 2605
 Ala Pro Met Glu Pro Leu Leu Trp Lys His Lys Met Leu Glu Trp Asp
 2610 2615 2620
 Leu Glu Val Gln Ala Gly Lys Ile Ser Ala Leu Glu Ala Thr Ala Arg
 2625 2630 2635 2640
 Gly Leu His Gln Gly Gly His Pro Glu Ala Gln Ser Ala Leu Gly Arg
 2645 2650 2655

Cys Gln Ala Met Leu Leu Arg Lys Glu Ala Leu Phe Arg Gln Ala Gly
 2660 2665 2670
 Thr Arg Arg His Arg Leu Glu Glu Leu Arg Gln Leu Gln Ala Phe Leu
 2675 2680 2685
 Gln Asp Ser Gln Glu Val Ala Ala Trp Leu Arg Glu Lys Asn Leu Val
 2690 2695 2700
 Ala Leu Glu Glu Gly Leu Leu Asp Thr Ala Met Leu Pro Ala Gln Leu
 2705 2710 2715 2720
 Gln Lys Gln Gln Asn Phe Gln Ala Glu Leu Asp Ala Ser Met His Gln
 2725 2730 2735
 Gln Gln Glu Leu Gln Arg Glu Gly Gln Arg Leu Leu Gln Gly Gly His
 2740 2745 2750
 Pro Ala Ser Glu Ala Ile Gln Glu Arg Leu Glu Glu Leu Gly Ala Leu
 2755 2760 2765
 Trp Gly Glu Leu Gln Asp Asn Ser Gln Lys Lys Val Ala Lys Leu Gln
 2770 2775 2780
 Lys Ala Cys Glu Ala Leu Arg Leu Arg Arg Ser Met Glu Glu Leu Glu
 2785 2790 2795 2800
 Asn Trp Leu Glu Pro Ile Glu Val Glu Leu Arg Ala Pro Thr Val Gly
 2805 2810 2815
 Gln Ala Leu Pro Gly Val Gly Glu Leu Leu Gly Thr Gln Arg Glu Leu
 2820 2825 2830
 Glu Ala Ala Val Asp Lys Lys Ala Arg Gln Ala Glu Ala Leu Leu Gly
 2835 2840 2845
 Gln Ala Glu Ala Phe Val Arg Glu Gly His Cys Leu Ala Arg Asp Val
 2850 2855 2860
 Glu Glu Gln Ala Arg Arg Leu Leu Gln Arg Phe Lys Ser Leu Arg Glu
 2865 2870 2875 2880
 Pro Leu Gln Glu Arg Arg Thr Ala Leu Glu Ala Arg Ser Leu Leu Leu
 2885 2890 2895
 Lys Phe Phe Arg Asp Ala Asp Glu Glu Met Ala Trp Val Gln Glu Lys
 2900 2905 2910
 Leu Pro Leu Ala Ala Ala Gln Asp Tyr Gly Gln Ser Leu Ser Ala Val
 2915 2920 2925
 Arg His Leu Gln Glu Gln His Gln Asn Leu Glu Ser Glu Met Ser Ser
 2930 2935 2940
 His Glu Ala Leu Thr Arg Val Val Leu Gly Thr Gly Tyr Lys Leu Val
 2945 2950 2955 2960
 Gln Ala Gly His Phe Ala Ala His Glu Val Ala Ala Arg Val Gln Gln
 2965 2970 2975
 Leu Glu Lys Ala Met Ala His Leu Arg Ala Glu Ala Ala Arg Arg Arg
 2980 2985 2990
 Leu Leu Leu Gln Gln Ala Gln Glu Ala Gln Gln Phe Leu Thr Glu Leu
 2995 3000 3005
 Leu Glu Ala Gly Ser Trp Leu Ala Glu Arg Gly His Val Leu Asp Ser
 3010 3015 3020
 Glu Asp Met Gly His Ser Ala Glu Ala Thr Gln Ala Leu Leu Arg Arg
 3025 3030 3035 3040
 Leu Glu Ala Thr Lys Arg Asp Leu Glu Ala Phe Ser Pro Arg Ile Glu
 3045 3050 3055
 Arg Leu Gln Gln Thr Ala Ala Leu Leu Glu Ser Arg Lys Asn Pro Glu
 3060 3065 3070
 Ser Pro Lys Val Leu Ala Gln Leu Gln Ala Val Arg Glu Ala His Ala
 3075 3080 3085
 Glu Leu Leu Arg Arg Ala Glu Ala Arg Gly His Gly Leu Gln Glu Gln
 3090 3095 3100
 Leu Gln Leu His Gln Leu Glu Arg Glu Thr Leu Leu Leu Asp Ala Trp
 3105 3110 3115 3120
 Leu Thr Thr Lys Ala Ala Thr Ala Glu Ser Gln Asp Tyr Gly Gln Asp
 3125 3130 3135
 Leu Glu Gly Val Lys Val Leu Glu Glu Lys Phe Asp Ala Phe Arg Lys
 3140 3145 3150
 Glu Val Gln Ser Leu Gly Gln Ala Lys Val Tyr Ala Leu Arg Lys Leu
 3155 3160 3165

Ala Gly Thr Leu Glu Arg Gly Ala Pro Arg Arg Tyr Pro His Ile Gln
 3170 3175 3180
 Ala Gln Arg Ser Arg Ile Glu Ala Ala Trp Glu Arg Leu Asp Gln Ala
 3185 3190 3195 3200
 Ile Lys Ala Arg Thr Glu Asn Leu Ala Ala His Glu Val His Ser
 3205 3210 3215
 Phe Gln Gln Ala Ala Ala Glu Leu Gln Gly Arg Met Gln Glu Lys Thr
 3220 3225 3230
 Ala Leu Met Lys Gly Glu Asp Gly Gly His Ser Leu Ser Ser Val Arg
 3235 3240 3245
 Thr Leu Gln Gln Gln His Arg Arg Leu Glu Arg Glu Leu Glu Ala Met
 3250 3255 3260
 Glu Lys Glu Val Ala Arg Leu Gln Thr Glu Ala Cys Arg Leu Gly Gln
 3265 3270 3275 3280
 Leu His Pro Ala Ala Pro Gly Gly Leu Ala Lys Val Gln Glu Ala Trp
 3285 3290 3295
 Ala Thr Leu Gln Ala Lys Ala Gln Glu Arg Gly Gln Trp Leu Ala Gln
 3300 3305 3310
 Ala Ala Gln Gly His Ala Phe Leu Gly Arg Cys Gln Glu Leu Ala
 3315 3320 3325
 Trp Ala Gln Glu Arg Gln Glu Leu Ala Ser Ser Glu Glu Leu Ala Glu
 3330 3335 3340
 Asp Val Ala Gly Ala Glu Gln Leu Leu Gly Gln His Glu Glu Leu Gly
 3345 3350 3355 3360
 Gln Glu Ile Arg Glu Cys Arg Leu Gln Ala Gln Asp Leu Arg Gln Glu
 3365 3370 3375
 Gly Gln Gln Leu Val Asp Asn Ser His Phe Met Ser Ala Glu Val Thr
 3380 3385 3390
 Glu Cys Leu Gln Glu Leu Glu Gly Arg Leu Gln Glu Leu Glu Ala
 3395 3400 3405
 Trp Ala Leu Arg Trp Gln Arg Cys Ala Glu Ser Trp Gly Leu Gln Lys
 3410 3415 3420
 Leu Arg Gln Arg Leu Glu Gln Ala Glu Ala Trp Leu Ala Cys Trp Glu
 3425 3430 3435 3440
 Gly Leu Leu Leu Lys Pro Asp Tyr Gly His Ser Val Ser Asp Val Glu
 3445 3450 3455
 Leu Leu Leu His Arg His Gln Asp Leu Glu Lys Leu Leu Ala Ala Gln
 3460 3465 3470
 Glu Glu Lys Phe Ala Gln Met Gln Lys Thr Glu Met Glu Gln Glu Leu
 3475 3480 3485
 Leu Leu Gln Pro Gln Glu Leu Lys Pro Gly Arg Ala Gly Ser Ser Leu
 3490 3495 3500
 Thr Ser Phe Gln Trp Arg Pro Ser Gly His Gln Gly Leu Gly Ala Gln
 3505 3510 3515 3520
 Leu Ala Glu Thr Arg Asp Pro Gln Asp Ala Lys Gly Thr Pro Thr Met
 3525 3530 3535
 Glu Gly Ser Leu Glu Phe Lys Gln His Leu Leu Pro Gly Gly Arg Gln
 3540 3545 3550
 Pro Ser Ser Ser Ser Trp Asp Ser Cys Arg Gly Thr Leu Gln Gly Ser
 3555 3560 3565
 Ser Leu Ser Leu Phe Leu Asp Glu Arg Met Ala Ala Glu Lys Val Ala
 3570 3575 3580
 Ser Ile Ala Leu Leu Asp Leu Thr Gly Ala Arg Cys Glu Arg Leu Arg
 3585 3590 3595 3600
 Gly Arg His Gly Arg Lys His Thr Phe Ser Leu Arg Leu Thr Ser Gly
 3605 3610 3615
 Ala Glu Ile Leu Phe Ala Ala Pro Ser Glu Glu Gln Ala Glu Ser Trp
 3620 3625 3630
 Trp Arg Ala Leu Gly Ser Thr Ala Ala Gln Ser Leu Ser Pro Lys Leu
 3635 3640 3645
 Lys Ala Lys Pro Val Ser Ser Leu Asn Glu Cys Thr Thr Lys Asp Ala
 3650 3655 3660
 Arg Pro Gly Cys Leu Leu Arg Ser Asp Pro *
 3665 3670 3674

<210> 455
 <211> 673
 <212> PRT
 <213> Homo sapiens

<400> 455
 Met Leu Cys Trp Lys Thr Thr Ser Gly Arg Leu Lys Asp Ile Leu Ala
 1 5 10 15
 Ile Leu Leu Thr Asp Val Leu Leu Leu Gln Glu Lys Asp Gln Lys
 20 25 30
 Tyr Val Phe Ala Ser Val Asp Ser Lys Pro Pro Val Ile Ser Leu Gln
 35 40 45
 Lys Leu Ile Val Arg Glu Val Ala Asn Glu Glu Lys Ala Met Phe Leu
 50 55 60
 Ile Ser Ala Ser Leu Gln Gly Pro Glu Met Tyr Glu Ile Tyr Thr Ser
 65 70 75 80
 Ser Lys Glu Asp Arg Asn Ala Trp Met Ala His Ile Gln Arg Ala Val
 85 90 95
 Glu Ser Cys Pro Asp Glu Glu Glu Gly Pro Phe Ser Leu Pro Glu Glu
 100 105 110
 Glu Arg Lys Val Val Glu Ala Arg Ala Thr Arg Leu Arg Asp Phe Gln
 115 120 125
 Glu Arg Leu Ser Met Lys Asp Gln Leu Ile Ala Gln Ser Leu Leu Glu
 130 135 140
 Lys Gln Gln Ile Tyr Leu Glu Met Ala Glu Met Gly Gly Leu Glu Asp
 145 150 155 160
 Leu Pro Gln Pro Arg Gly Leu Phe Arg Gly Gly Asp Pro Ser Glu Thr
 165 170 175
 Leu Gln Gly Glu Leu Ile Leu Lys Ser Ala Met Ser Glu Ile Glu Gly
 180 185 190
 Ile Gln Ser Leu Ile Cys Arg Gln Leu Gly Ser Ala Asn Gly Gln Ala
 195 200 205
 Glu Asp Gly Gly Ser Ser Thr Gly Pro Pro Arg Arg Ala Glu Thr Phe
 210 215 220
 Ala Gly Tyr Asp Cys Thr Asn Ser Pro Thr Lys Asn Gly Ser Phe Lys
 225 230 235 240
 Lys Lys Val Ser Ser Thr Asp Pro Arg Pro Arg Asp Trp Arg Gly Pro
 245 250 255
 Pro Asn Ser Pro Asp Leu Lys Leu Ser Asp Ser Asp Ile Pro Gly Ser
 260 265 270
 Ser Glu Glu Ser Pro Gln Val Val Glu Ala Pro Gly Thr Glu Ser Asp
 275 280 285
 Pro Arg Leu Pro Thr Val Leu Glu Ser Glu Leu Val Gln Arg Ile Gln
 290 295 300
 Thr Leu Ser Gln Leu Leu Leu Asn Leu Gln Ala Val Ile Ala His Gln
 305 310 315 320
 Asp Ser Tyr Val Glu Thr Gln Arg Ala Ala Ile Gln Glu Arg Glu Lys
 325 330 335
 Gln Phe Arg Leu Gln Ser Thr Arg Gly Asn Leu Leu Leu Glu Gln Glu
 340 345 350
 Arg Gln Arg Asn Phe Glu Lys Gln Arg Glu Glu Arg Ala Ala Leu Glu
 355 360 365
 Lys Leu Gln Ser Gln Leu Arg His Glu Gln Gln Arg Trp Glu Arg Glu
 370 375 380
 Arg Gln Trp Gln His Gln Glu Leu Glu Arg Ala Gly Ala Arg Leu Gln
 385 390 395 400
 Glu Arg Glu Gly Glu Ala Arg Gln Leu Arg Glu Arg Leu Glu Gln Glu
 405 410 415
 Arg Ala Glu Leu Glu Arg Gln Arg Gln Ala Tyr Gln His Asp Leu Glu
 420 425 430

Arg Leu Arg Glu Ala Gln Arg Ala Val Glu Arg Glu Arg Glu Arg Leu
 435 440 445
 Glu Leu Leu Arg Arg Leu Lys Lys Gln Asn Thr Ala Pro Gly Ala Leu
 450 455 460
 Pro Pro Asp Thr Leu Ala Glu Ala Gln Pro Pro Ser His Pro Pro Ser
 465 470 475 480
 Phe Asn Gly Glu Gly Leu Glu Gly Pro Arg Val Ser Met Leu Pro Ser
 485 490 495
 Gly Val Gly Pro Glu Tyr Ala Glu Arg Pro Glu Val Ala Arg Arg Asp
 500 505 510
 Ser Ala Pro Thr Glu Ser Arg Leu Ala Lys Ser Asp Val Pro Ile Gln
 515 520 525
 Leu Leu Ser Ala Thr Asn Gln Phe Gln Arg Gln Ala Ala Val Gln Gln
 530 535 540
 Gln Ile Pro Thr Lys Leu Ala Ala Ser Thr Lys Gly Gly Lys Asp Lys
 545 550 555 560
 Gly Gly Lys Ser Arg Gly Ser Gln Arg Trp Glu Ser Ser Ala Ser Phe
 565 570 575
 Asp Leu Lys Gln Gln Leu Leu Leu Asn Lys Leu Met Gly Lys Asp Glu
 580 585 590
 Ser Thr Ser Arg Asn Arg Arg Ser Leu Ser Pro Ile Leu Pro Gly Arg
 595 600 605
 His Ser Pro Ala Pro Pro Pro Asp Pro Gly Phe Pro Ala Pro Ser Pro
 610 615 620
 Pro Pro Ala Asp Ser Pro Ser Glu Gly Phe Ser Leu Lys Ala Gly Gly
 625 630 635 640
 Thr Ala Leu Leu Pro Gly Pro Pro Ala Pro Ser Pro Leu Pro Ala Thr
 645 650 655
 Pro Leu Ser Ala Lys Glu Asp Ala Ser Lys Glu Asp Val Ile Phe Phe
 660 665 670 672
 *

<210> 456
 <211> 463
 <212> PRT
 <213> Homo sapiens

<400> 456
 Met Ala Gln Val Ser Ile Asn Asn Asp Tyr Ser Glu Trp Asp Leu Ser
 1 5 10 15
 Thr Asp Ala Gly Glu Arg Ala Arg Leu Leu Gln Ser Pro Cys Val Asp
 20 25 30
 Thr Ala Pro Lys Ser Glu Trp Glu Ala Ser Pro Gly Gly Leu Asp Arg
 35 40 45
 Gly Thr Thr Ser Thr Leu Gly Ala Ile Phe Ile Val Val Asn Ala Cys
 50 55 60
 Leu Gly Ala Gly Leu Leu Asn Phe Pro Ala Ala Phe Ser Ile Ala Gly
 65 70 75 80
 Gly Val Ala Ala Gly Ile Ala Leu Gln Met Gly Met Leu Val Phe Ile
 85 90 95
 Ile Ser Gly Leu Val Ile Leu Ala Tyr Cys Ser Gln Ala Ser Asn Glu
 100 105 110
 Arg Thr Tyr Gln Glu Val Val Trp Ala Val Cys Gly Lys Leu Thr Gly
 115 120 125
 Val Leu Cys Glu Val Ala Ile Ala Val Tyr Thr Phe Gly Thr Cys Ile
 130 135 140
 Ala Phe Leu Ile Ile Ile Gly Asp Gln Gln Asp Lys Ile Ile Ala Val
 145 150 155 160
 Met Ala Lys Glu Pro Glu Gly Ala Ser Gly Pro Trp Tyr Thr Asp Arg
 165 170 175

Lys Phe Thr Ile Ser Leu Thr Ala Phe Leu Phe Ile Leu Pro Leu Ser
 180 185 190
 Ile Pro Arg Glu Ile Gly Phe Gln Lys Tyr Ala Ser Phe Leu Ser Val
 195 200 205
 Val Gly Thr Trp Tyr Val Thr Ala Ile Val Ile Ile Lys Tyr Ile Trp
 210 215 220
 Pro Asp Lys Glu Met Thr Pro Gly Asn Ile Leu Thr Arg Pro Ala Ser
 225 230 235 240
 Trp Met Ala Val Phe Asn Ala Met Pro Thr Ile Cys Phe Gly Phe Gln
 245 250 255
 Cys His Val Ser Ser Val Pro Val Phe Asn Ser Met Gln Gln Pro Glu
 260 265 270
 Val Lys Thr Trp Gly Gly Val Val Thr Ala Ala Met Val Ile Ala Leu
 275 280 285
 Ala Val Tyr Met Gly Thr Gly Ile Cys Gly Phe Leu Thr Phe Gly Ala
 290 295 300
 Ala Val Asp Pro Asp Val Leu Leu Ser Tyr Pro Ser Glu Asp Met Ala
 305 310 315 320
 Val Ala Val Ala Arg Ala Phe Ile Ile Leu Ser Val Leu Thr Ser Tyr
 325 330 335
 Pro Ile Leu His Phe Cys Gly Arg Ala Val Val Glu Gly Leu Trp Leu
 340 345 350
 Arg Tyr Gln Gly Val Pro Val Glu Asp Val Gly Arg Glu Arg Arg
 355 360 365
 Arg Arg Val Leu Gln Thr Leu Val Trp Phe Leu Leu Thr Leu Leu Leu
 370 375 380
 Ala Leu Phe Ile Pro Asp Ile Gly Lys Val Ile Ser Val Ile Gly Gly
 385 390 395 400
 Leu Ala Ala Cys Phe Ile Phe Val Phe Pro Gly Leu Cys Leu Ile Gln
 405 410 415
 Ala Lys Leu Ser Glu Met Glu Glu Val Lys Pro Ala Ser Trp Trp Val
 420 425 430
 Leu Val Ser Tyr Gly Val Leu Leu Val Thr Leu Gly Ala Phe Ile Phe
 435 440 445
 Gly Gln Thr Thr Ala Asn Ala Ile Phe Val Asp Leu Leu Ala *
 450 455 460 462

<210> 457

<211> 367

<212> PRT

<213> Homo sapiens

<400> 457

Met Gln Leu His Met Ser Thr Leu Lys Glu Arg Asp Gln Phe Phe Ser
 1 5 10 15
 Glu Leu Gln Glu Ile Gln Arg Thr Ser Thr Pro Arg Pro Asp Trp Thr
 20 25 30
 Lys Cys Lys Asp Val Val Ala Gly Gly Pro Glu Arg Trp Gln Met Leu
 35 40 45
 Ala Glu Gly Lys Asn Ser Asp Gln Leu Val Asp Val Leu Leu Glu Glu
 50 55 60
 Ile Gly Ser Gly Leu Leu Arg Glu Lys Asp Phe Phe Pro Gly Leu Gly
 65 70 75 80
 Tyr Gly Glu Ala Ile Pro Ala Phe Leu Arg Phe Asp Gly Leu Val Glu
 85 90 95
 Asn Lys Lys Pro Ser Lys Lys Asp Val Val Asn Leu Leu Lys Asp Ala
 100 105 110
 Trp Lys Glu Arg Leu Ala Glu Glu Gln Lys Glu Thr Phe Pro Asp Phe
 115 120 125
 Phe Phe Asn Phe Leu Glu His Arg Phe Gly Pro Ser Asp Ala Met Ala
 130 135 140

Trp Ala Tyr Thr Ile Phe Glu Asn Ile Lys Ile Phe His Ser Asn Glu
 145 150 155 160
 Val Met Ser Gln Phe Tyr Ala Val Leu Met Gly Lys Arg Ser Glu Asn
 165 170 175
 Val Tyr Val Thr Gln Lys Glu Thr Val Ala Gln Leu Leu Lys Glu Met
 180 185 190
 Thr Asn Ala Asp Ser Gln Asn Glu Gly Leu Leu Thr Met Glu Gln Phe
 195 200 205
 Asn Thr Val Leu Lys Ser Thr Phe Pro Leu Lys Thr Glu Glu Gln Ile
 210 215 220
 Gln Glu Leu Met Glu Ala Gly Gly Trp His Pro Ser Ser Ser Asn Ala
 225 230 235 240
 Asp Leu Leu Asn Tyr Arg Ser Leu Phe Met Glu Asp Glu Glu Gly Gln
 245 250 255
 Ser Glu Pro Phe Val Gln Lys Leu Trp Glu Gln Tyr Met Asp Glu Lys
 260 265 270
 Asp Glu Tyr Leu Gln Gln Leu Lys Gln Glu Leu Gly Ile Glu Leu His
 275 280 285
 Glu Glu Val Thr Leu Pro Lys Leu Arg Gly Gly Leu Met Thr Ile Asp
 290 295 300
 Pro Ser Leu Asp Lys Gln Thr Val Asn Thr Tyr Met Ser Gln Ala Phe
 305 310 315 320
 Gln Leu Pro Glu Ser Glu Met Pro Glu Glu Gly Asp Glu Lys Glu Glu
 325 330 335
 Ala Val Val Glu Ile Leu Gln Thr Ala Leu Glu Arg Leu Gln Val Ile
 340 345 350
 Asp Ile Arg Arg Val Gly Pro Arg Glu Pro Glu Pro Ala Ser *
 355 360 365 366

<210> 458

<211> 514

<212> PRT

<213> Homo sapiens

<400> 458

Met Ala Ser Val Leu Ser Arg Arg Leu Gly Lys Arg Ser Leu Leu Gly
 1 5 10 15
 Ala Arg Val Leu Gly Pro Ser Ala Ser Glu Gly Pro Ser Ala Ala Pro
 20 25 30
 Pro Ser Glu Pro Leu Leu Glu Gly Ala Ala Pro Gln Pro Phe Thr Thr
 35 40 45
 Ser Asp Asp Thr Pro Cys Gln Glu Gln Pro Lys Glu Val Leu Lys Ala
 50 55 60
 Pro Ser Thr Ser Gly Leu Gln Gln Val Ala Phe Gln Pro Gly Gln Lys
 65 70 75 80
 Val Tyr Val Trp Tyr Gly Gly Gln Glu Cys Thr Gly Leu Val Glu Gln
 85 90 95
 His Ser Trp Met Glu Gly Gln Val Thr Val Trp Leu Leu Glu Gln Lys
 100 105 110
 Leu Gln Val Cys Cys Arg Val Glu Glu Val Trp Leu Ala Glu Leu Gln
 115 120 125
 Gly Pro Cys Pro Gln Ala Pro Pro Leu Glu Pro Gly Ala Gln Ala Leu
 130 135 140
 Ala Tyr Arg Pro Val Ser Arg Asn Ile Asp Val Pro Lys Arg Lys Ser
 145 150 155 160
 Asp Ala Val Glu Met Asp Glu Met Met Ala Ala Met Val Leu Thr Ser
 165 170 175
 Leu Ser Cys Ser Pro Val Val Gln Ser Pro Pro Gly Thr Glu Ala Asn
 180 185 190
 Phe Ser Ala Ser Arg Ala Ala Cys Asp Pro Trp Lys Glu Ser Gly Asp
 195 200 205

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Ile Ser Asp Ser Gly Ser Ser Thr Thr Ser Gly His Trp Ser Gly Ser
 210                215                220
Ser Gly Val Ser Thr Pro Ser Pro Pro His Pro Gln Ala Ser Pro Lys
225                230                235                240
Tyr Leu Gly Asp Ala Phe Gly Ser Pro Gln Thr Asp His Gly Phe Glu
                245                250                255
Thr Asp Pro Asp Pro Phe Leu Leu Asp Glu Pro Ala Pro Arg Lys Arg
                260                265                270
Lys Asn Ser Val Lys Val Met Tyr Lys Cys Leu Trp Pro Asn Cys Gly
                275                280                285
Lys Val Leu Arg Ser Ile Val Gly Ile Lys Arg His Val Lys Ala Leu
                290                295                300
His Leu Gly Asp Thr Val Asp Ser Asp Gln Phe Lys Arg Glu Glu Asp
305                310                315                320
Phe Tyr Tyr Thr Glu Val Gln Leu Lys Glu Glu Ser Ala Ala Ala Ala
                325                330                335
Ala Ala Ala Ala Ala Gly Thr Pro Val Pro Gly Thr Pro Thr Ser Glu
                340                345                350
Pro Ala Pro Thr Pro Ser Met Thr Gly Leu Pro Leu Ser Ala Leu Pro
                355                360                365
Pro Pro Leu His Lys Ala Gln Ser Ser Gly Pro Glu His Pro Gly Pro
                370                375                380
Glu Ser Ser Leu Pro Ser Gly Ala Leu Ser Lys Ser Ala Pro Gly Ser
385                390                395                400
Phe Trp His Ile Gln Ala Asp His Ala Tyr Gln Ala Leu Pro Ser Phe
                405                410                415
Gln Ile Pro Val Ser Pro His Ile Tyr Thr Ser Val Ser Trp Ala Ala
                420                425                430
Ala Pro Ser Ala Ala Cys Ser Leu Ser Pro Val Arg Ser Arg Ser Leu
                435                440                445
Ser Phe Ser Glu Pro Gln Gln Pro Ala Pro Ala Met Lys Ser His Leu
                450                455                460
Ile Val Thr Ser Pro Pro Arg Ala Gln Ser Gly Ala Arg Lys Ala Arg
465                470                475                480
Gly Glu Ala Lys Lys Cys Arg Lys Val Tyr Gly Ile Glu His Arg Asp
                485                490                495
Gln Trp Cys Thr Ala Cys Arg Trp Lys Lys Ala Cys Gln Arg Phe Leu
                500                505                510
Asp *
513

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<210> 459
<211> 774
<212> PRT
<213> Homo sapiens

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```

<400> 459
Met Ala His Glu Ala Met Glu Tyr Asp Val Gln Val Gln Leu Asn His
 1                5                10                15
Ala Glu Gln Gln Pro Ala Pro Ala Gly Met Ala Ser Ser Gln Gly Gly
                20                25                30
Pro Ala Leu Leu Gln Pro Val Pro Ala Asp Val Val Ser Ser Gln Gly
                35                40                45
Val Pro Ser Ile Leu Gln Pro Ala Pro Ala Glu Val Ile Ser Ser Gln
                50                55                60
Ala Thr Pro Pro Leu Leu Gln Pro Ala Pro Gln Leu Ser Val Asp Leu
65                70                75                80
Thr Glu Val Glu Val Leu Gly Glu Asp Asn Val Glu Asn Ile Asn Pro
                85                90                95
Arg Thr Ser Glu Gln His Arg Gln Gly Ser Asp Gly Asn His Thr Ile
                100                105                110

```

Pro Ala Ser Ser Leu His Ser Met Thr Asn Phe Ile Ser Gly Leu Gln
 115 120 125
 Arg Leu His Gly Met Leu Glu Phe Leu Arg Pro Ser Ser Asn His
 130 135 140
 Ser Val Gly Pro Met Arg Thr Arg Arg Arg Val Ser Ala Ser Arg Arg
 145 150 155 160
 Ala Arg Ala Gly Gly Ser Gln Arg Thr Asp Ser Ala Arg Leu Arg Ala
 165 170 175
 Pro Leu Asp Ala Tyr Phe Gln Val Ser Arg Thr Gln Pro Asp Leu Pro
 180 185 190
 Ala Thr Thr Tyr Asp Ser Glu Thr Arg Asn Pro Val Ser Glu Glu Leu
 195 200 205
 Gln Val Ser Ser Ser Ser Asp Ser Asp Ser Asp Ser Ser Ala Glu Tyr
 210 215 220
 Gly Gly Val Val Asp Gln Ala Glu Glu Ser Gly Ala Val Ile Leu Glu
 225 230 235 240
 Glu Gln Leu Ala Gly Val Ser Ala Glu Gln Glu Val Thr Cys Ile Asp
 245 250 255
 Gly Gly Lys Thr Leu Pro Lys Gln Pro Ser Pro Gln Lys Ser Glu Pro
 260 265 270
 Leu Leu Pro Ser Ala Ser Met Asp Glu Glu Glu Gly Asp Thr Cys Thr
 275 280 285
 Ile Cys Leu Glu Gln Trp Thr Asn Ala Gly Asp His Arg Leu Ser Ala
 290 295 300
 Leu Arg Cys Gly His Leu Phe Gly Tyr Arg Cys Ile Ser Thr Trp Leu
 305 310 315 320
 Lys Gly Gln Val Arg Lys Cys Pro Gln Cys Asn Lys Lys Ala Arg His
 325 330 335
 Ser Asp Ile Val Val Leu Tyr Ala Arg Thr Leu Arg Ala Leu Asp Thr
 340 345 350
 Ser Glu Gln Glu Arg Met Lys Ser Ser Leu Leu Lys Glu Gln Met Leu
 355 360 365
 Arg Lys Gln Ala Glu Leu Glu Ser Ala Gln Cys Arg Leu Gln Leu Gln
 370 375 380
 Val Leu Thr Asp Lys Cys Thr Arg Leu Gln Arg Arg Val Gln Asp Leu
 385 390 395 400
 Gln Lys Leu Thr Ser His Gln Ser Gln Asn Leu Gln Gln Pro Arg Gly
 405 410 415
 Ser Gln Ala Trp Val Leu Ser Cys Ser Pro Ser Ser Gln Gly Gln His
 420 425 430
 Lys His Lys Tyr His Phe Gln Lys Thr Phe Thr Val Ser Gln Ala Gly
 435 440 445
 Asn Cys Arg Ile Met Ala Tyr Cys Asp Ala Leu Ser Cys Leu Val Ile
 450 455 460
 Ser Gln Pro Ser Pro Gln Ala Ser Phe Leu Pro Gly Phe Gly Val Lys
 465 470 475 480
 Met Leu Ser Thr Ala Asn Met Lys Ser Ser Gln Tyr Ile Pro Met His
 485 490 495
 Gly Lys Gln Ile Arg Gly Leu Ala Phe Ser Ser Tyr Leu Arg Gly Leu
 500 505 510
 Leu Leu Ser Ala Ser Leu Asp Asn Thr Ile Lys Leu Thr Ser Leu Glu
 515 520 525
 Thr Asn Thr Val Val Gln Thr Tyr Asn Ala Gly Arg Pro Val Trp Ser
 530 535 540
 Cys Cys Trp Cys Leu Asp Glu Thr Asn Tyr Ile Tyr Ala Gly Leu Ala
 545 550 555 560
 Asn Gly Ser Ile Leu Val Tyr Asp Val Arg Asn Thr Ser Ser His Val
 565 570 575
 Gln Glu Leu Val Ala Gln Lys Ala Arg Cys Pro Leu Val Ser Leu Ser
 580 585 590
 Tyr Met Pro Arg Ala Ala Ser Ala Ala Phe Pro Tyr Gly Gly Val Leu
 595 600 605
 Ala Gly Thr Leu Glu Asp Ala Ser Phe Trp Glu Gln Lys Met Asp Phe
 610 615 620

Ser His Trp Pro His Val Leu Pro Leu Glu Pro Gly Gly Cys Ile Asp
 625 630 635 640
 Phe Gln Thr Glu Asn Ser Ser Arg His Cys Leu Val Thr Tyr Arg Pro
 645 650 655
 Asp Lys Asn His Thr Thr Ile Arg Ser Val Leu Met Glu Met Ser Tyr
 660 665 670
 Arg Leu Asp Asp Thr Gly Asn Pro Ile Cys Ser Cys Gln Pro Val His
 675 680 685
 Thr Phe Phe Gly Gly Pro Thr Cys Lys Leu Leu Thr Lys Asn Ala Ile
 690 695 700
 Phe Gln Ser Pro Glu Asn Asp Gly Asn Ile Leu Val Cys Thr Gly Asp
 705 710 715 720
 Glu Ala Ala Asn Ser Ala Leu Leu Trp Asp Ala Ala Ser Gly Ser Leu
 725 730 735
 Leu Gln Asp Leu Gln Thr Asp Gln Pro Val Leu Asp Ile Cys Pro Phe
 740 745 750
 Glu Val Asn Arg Asn Ser Tyr Leu Ala Thr Leu Thr Glu Lys Met Val
 755 760 765
 His Ile Tyr Lys Trp Glu
 770 774

<210> 460
 <211> 189
 <212> PRT
 <213> Homo sapiens

<400> 460
 Met Val Pro Gly Ala Ala Gly Trp Cys Cys Leu Val Leu Trp Leu Pro
 1 5 10 15
 Ala Cys Val Ala Ala His Gly Phe Arg Ile His Asp Tyr Leu Tyr Phe
 20 25 30
 Gln Val Leu Ser Pro Gly Asp Ile Arg Tyr Ile Phe Thr Ala Thr Pro
 35 40 45
 Ala Lys Asp Phe Gly Gly Ile Phe His Thr Arg Tyr Glu Gln Ile His
 50 55 60
 Leu Val Pro Ala Glu Pro Pro Glu Ala Cys Gly Glu Leu Ser Asn Gly
 65 70 75 80
 Phe Phe Ile Gln Asp Gln Ile Ala Leu Val Glu Arg Gly Gly Cys Ser
 85 90 95
 Phe Leu Ser Lys Thr Arg Val Val Gln Glu His Gly Gly Arg Ala Val
 100 105 110
 Ile Ile Ser Asp Asn Ala Val Asp Asn Asp Ser Phe Tyr Val Glu Met
 115 120 125
 Ile Gln Asp Ser Thr Gln Arg Thr Ala Asp Ile Pro Ala Leu Phe Leu
 130 135 140
 Leu Gly Arg Asp Gly Tyr Met Ile Arg Arg Ser Leu Glu Gln His Gly
 145 150 155 160
 Leu Pro Trp Ala Ile Ile Ser Ile Pro Val Asn Val Thr Ser Ile Pro
 165 170 175
 Thr Phe Glu Leu Leu Gln Pro Pro Trp Thr Phe Trp *
 180 185 188

<210> 461
 <211> 446
 <212> PRT
 <213> Homo sapiens

<400> 461

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Met Ala Ala Pro Thr Pro Ala Arg Pro Val Leu Thr His Leu Leu Val
1      5      10      15
Ala Leu Phe Gly Met Gly Ser Trp Ala Ala Val Asn Gly Ile Trp Val
20     25     30
Glu Leu Pro Val Val Val Lys Glu Leu Pro Glu Gly Trp Ser Leu Pro
35     40     45
Ser Tyr Val Ser Val Leu Val Ala Leu Gly Asn Leu Gly Leu Leu Val
50     55     60
Val Thr Leu Trp Arg Arg Leu Ala Pro Gly Lys Asp Glu Gln Val Pro
65     70     75     80
Ile Arg Val Val Gln Val Leu Gly Met Val Gly Thr Ala Leu Leu Ala
85     90     95
Ser Leu Trp His His Val Ala Pro Val Ala Gly Gln Leu His Ser Val
100    105    110
Ala Phe Leu Ala Leu Ala Phe Val Leu Ala Leu Ala Cys Cys Ala Ser
115    120    125
Asn Val Thr Phe Leu Pro Phe Leu Ser His Leu Pro Pro Arg Phe Leu
130    135    140
Arg Ser Phe Phe Leu Gly Gln Gly Leu Ser Ala Leu Leu Pro Cys Val
145    150    155    160
Leu Ala Leu Val Gln Gly Val Gly Arg Leu Glu Cys Pro Pro Ala Pro
165    170    175
Ile Asn Gly Thr Pro Gly Pro Pro Leu Asp Phe Leu Glu Arg Phe Pro
180    185    190
Ala Ser Thr Phe Phe Trp Ala Leu Thr Ala Leu Leu Val Ala Ser Ala
195    200    205
Ala Ala Phe Gln Gly Leu Leu Leu Leu Leu Pro Pro Pro Pro Ser Val
210    215    220
Pro Thr Gly Glu Leu Gly Ser Gly Leu Gln Val Gly Ala Pro Gly Ala
225    230    235    240
Glu Glu Glu Val Glu Glu Ser Ser Pro Leu Gln Glu Pro Pro Ser Gln
245    250    255
Ala Ala Gly Thr Thr Pro Gly Pro Asp Pro Lys Ala Tyr Gln Leu Leu
260    265    270
Ser Ala Arg Ser Ala Cys Leu Leu Gly Leu Leu Ala Ala Thr Asn Ala
275    280    285
Leu Thr Asn Gly Val Leu Pro Ala Val Gln Ser Phe Ser Cys Leu Pro
290    295    300
Tyr Gly Arg Leu Ala Tyr His Leu Ala Val Val Leu Gly Ser Ala Ala
305    310    315    320
Asn Pro Leu Ala Cys Phe Leu Ala Met Gly Val Leu Cys Arg Ser Leu
325    330    335
Ala Gly Leu Gly Gly Leu Ser Leu Leu Gly Val Phe Cys Gly Gly Tyr
340    345    350
Leu Met Ala Leu Ala Val Leu Ser Pro Cys Pro Pro Leu Val Gly Thr
355    360    365
Ser Ala Gly Val Val Leu Val Val Leu Ser Trp Val Leu Cys Leu Gly
370    375    380
Val Phe Ser Tyr Val Lys Val Ala Ala Ser Ser Leu Leu His Gly Gly
385    390    395    400
Gly Arg Pro Ala Leu Leu Ala Ala Gly Val Ala Ile Gln Val Gly Ser
405    410    415
Leu Leu Gly Ala Val Ala Met Phe Pro Pro Thr Ser Ile Tyr His Val
420    425    430
Phe His Ser Arg Lys Asp Cys Ala Asp Pro Cys Asp Ser *
435    440    445

```

<210> 462

<211> 119

<212> PRT

<213> Homo sapiens

<400> 462
 Met Ile Leu Met Val Phe Gln Trp Lys Tyr Thr Ser Leu Pro Arg Ser
 1 5 10 15
 Ser Thr Leu Met Asp Trp Asn Leu Gln Phe Ser Leu Leu Trp Ala
 20 25 30
 Thr Ala Asp Ile Ser Asp Gln Leu Phe Gln Pro Pro Gln Lys Phe Ser
 35 40 45
 Trp Asp Pro Leu Glu Ser Ala Leu Cys Leu Tyr Ser Ser Gly Ser Ala
 50 55 60
 Lys Asp Leu Lys Gly Glu Met Gln Ser Phe Trp Tyr Pro Ala Arg Lys
 65 70 75 80
 Ser Pro Pro Leu His Leu Pro Ala Leu Gln Leu Phe Tyr Phe Gly Glu
 85 90 95
 Leu Pro Cys Lys Phe Leu Pro Ala Leu Val Val Pro Gly Ser Thr Leu
 100 105 110
 Pro Pro Ser Arg Pro Leu *
 115 118

<210> 463
 <211> 86
 <212> PRT
 <213> Homo sapiens

<400> 463
 Met Lys Ile Thr Gly Gly Leu Leu Leu Leu Cys Thr Val Val Tyr Phe
 1 5 10 15
 Cys Ser Ser Ser Glu Ala Ala Ser Leu Ser Pro Lys Lys Val Asp Cys
 20 25 30
 Ser Ile Tyr Lys Lys Tyr Pro Val Val Ala Ile Pro Cys Pro Ile Thr
 35 40 45
 Tyr Leu Pro Val Cys Gly Ser Asp Tyr Ile Thr Tyr Gly Asn Glu Cys
 50 55 60
 His Leu Cys Thr Glu Ser Leu Lys Ser Asn Gly Arg Val Gln Phe Leu
 65 70 75 80
 His Asp Gly Ser Cys *
 85

<210> 464
 <211> 267
 <212> PRT
 <213> Homo sapiens

<400> 464
 Met Arg Ser Thr Ser Lys Lys Thr Arg Lys Glu Asp His Ala Arg Leu
 1 5 10 15
 Arg Ala Leu Asn Gly Leu Leu Tyr Lys Ala Leu Thr Asp Leu Leu Cys
 20 25 30
 Thr Pro Glu Val Ser Gln Glu Leu Tyr Asp Leu Asn Val Glu Leu Ser
 35 40 45
 Lys Val Ser Leu Thr Pro Asp Phe Ser Ala Cys Arg Ala Tyr Trp Lys
 50 55 60
 Thr Thr Leu Ser Ala Glu Gln Asn Ala His Met Glu Ala Val Leu Gln
 65 70 75 80
 Arg Ser Ala Ala His Met Arg His Leu Leu Met Ser Gln Gln Thr Leu
 85 90 95
 Arg Asn Val Pro Pro Ile Val Phe Val Gln Asp Lys Gly Asn Ala Ala
 100 105 110


```

Leu Ala Glu Leu Asp Gln Leu Leu Ala Val Ala Asp Phe Gly Pro Arg
    115          120          125
Asp Glu Arg Asp Asn Phe Val Gln Asn Asp Phe Arg Asp Pro Asp Ala
    130          135          140
Pro Gln Pro Cys Gly Thr Thr Glu Pro Thr Thr Ser Ser Ser Leu Cys
145          150          155          160
Gly Ile Asp His Glu Ala Leu His Lys Gln Ile Met Glu Tyr Lys Arg
    165          170          175
Arg Lys Asp Lys Gly Leu Gly Gly Leu Val Trp Gln Gly Gln Val Ala
    180          185          190
Glu Leu Thr Thr Gln Met Lys Lys Gly Arg Lys Arg Ala Lys Pro Arg
    195          200          205
Leu Glu Gln Asp Ser Ser Leu Lys Ser Tyr Leu Ser Gly Glu Glu Val
    210          215          220
Glu Asp Asp Leu Asp Leu Val Gly Ala Pro Glu Tyr Glu Cys Tyr Ala
225          230          235          240
Pro Asp Thr Glu Glu Leu Glu Ala Glu Arg Gly Gly Gly Arg Thr Glu
    245          250          255
Asp Gly His Ser Cys Gly Ala Ser Arg Glu *
    260          265 266

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<210> 465

<211> 348

<212> PRT

<213> Homo sapiens

<400> 465

```

Met Gln Tyr Met Tyr Phe Lys Ala Glu Pro Tyr Ala Ala Asp Glu Gly
  1          5          10          15
Ser Gly Glu Gly His Lys Trp Leu Met Val His Val Asp Lys Arg Ile
    20          25          30
Thr Leu Ala Ala Phe Lys Gln His Leu Glu Pro Phe Val Gly Val Leu
    35          40          45
Ser Ser His Phe Lys Val Phe Arg Val Tyr Ala Ser Asn Gln Glu Phe
    50          55          60
Glu Ser Val Arg Leu Asn Glu Thr Leu Ser Ser Phe Ser Asp Asp Asn
    65          70          75          80
Lys Ile Thr Ile Arg Leu Gly Arg Ala Leu Lys Lys Gly Glu Tyr Arg
    85          90          95
Val Lys Val Tyr Gln Leu Leu Val Asn Glu Gln Glu Pro Cys Lys Phe
    100          105          110
Leu Leu Asp Ala Val Phe Ala Lys Gly Met Thr Val Arg Gln Ser Lys
    115          120          125
Glu Glu Leu Ile Pro Gln Leu Arg Glu Gln Cys Gly Leu Glu Leu Ser
    130          135          140
Ile Asp Arg Phe Arg Leu Arg Lys Lys Thr Trp Lys Asn Pro Gly Thr
145          150          155          160
Val Phe Leu Asp Tyr His Ile Tyr Glu Glu Asp Ile Asn Ile Ser Ser
    165          170          175
Asn Trp Glu Val Phe Leu Glu Val Leu Asp Gly Val Glu Lys Met Lys
    180          185          190
Ser Met Ser Gln Leu Ala Val Leu Ser Arg Arg Trp Lys Pro Ser Glu
    195          200          205
Met Lys Leu Asp Pro Phe Gln Glu Val Val Leu Glu Ser Ser Ser Val
    210          215          220
Asp Glu Leu Arg Glu Lys Leu Ser Glu Ile Ser Gly Ile Pro Leu Asp
225          230          235          240
Asp Ile Glu Phe Ala Lys Gly Arg Gly Thr Phe Pro Cys Asp Ile Ser
    245          250          255
Val Leu Asp Ile His Gln Asp Leu Asp Trp Asn Pro Lys Val Ser Thr
    260          265          270

```

Leu Asn Val Trp Pro Leu Tyr Ile Cys Asp Asp Gly Gly Val Ile Phe
 275 280 285
 Tyr Arg Asp Lys Thr Glu Glu Leu Met Glu Leu Thr Asp Glu Gln Arg
 290 295 300
 Asn Glu Leu Met Lys Lys Glu Ser Ser Arg Leu Gln Lys Thr Gly His
 305 310 315 320
 Arg Val Thr Tyr Ser Pro Arg Lys Glu Lys Ala Leu Lys Ile Tyr Leu
 325 330 335
 Asp Gly Ala Pro Asn Lys Asp Leu Thr Gln Asp *
 340 345 347

<210> 466
 <211> 105
 <212> PRT
 <213> Homo sapiens

<400> 466
 Met Leu Ala His Leu Ser Phe Glu Arg Ser Leu Ile Leu His Leu Ile
 1 5 10 15
 Phe Ser Gly Ile Ala Val Ser Ile Lys Ala Leu Thr Lys Thr Trp Met
 20 25 30
 Pro Pro Glu Met Gly Ser Ser Pro Val Tyr Lys Ala Phe Ser Leu Leu
 35 40 45
 Gln Cys Arg Leu Ser Ala Gln Lys Trp Gly Ser Cys His Ser Gln Asn
 50 55 60
 Thr Leu His Trp Pro Val Trp Gly Pro Gln Thr Thr Leu Pro Ser Ser
 65 70 75 80
 Gln Ala Ser Phe Val Gly Trp Ala His Ser His Ser Pro Leu Ala Val
 85 90 95
 Pro Ala Ser Ser Asp Cys Val Leu *
 100 104

<210> 467
 <211> 107
 <212> PRT
 <213> Homo sapiens

<400> 467
 Met Ala Leu Leu His Ile Cys Val Gly His Pro Leu Leu Ser Phe Pro
 1 5 10 15
 Lys Ala Gly Asp Phe Ser Phe Ser Ser Gln Asp Asp Pro Ser Glu Leu
 20 25 30
 Thr Ala Gly Ala Lys Asp Lys Glu Phe Ser Cys Leu Leu Val Ile Cys
 35 40 45
 Leu Gln Pro Ala Pro Ser Thr Arg Ser Leu Phe Ser Trp Gln Leu Phe
 50 55 60
 Leu Leu Ser Phe Ser Leu Val Ser Phe Thr Leu Ile Tyr Arg Gly Glu
 65 70 75 80
 Phe Lys Lys Ser Gly Glu Ala Lys Asp Tyr Leu Thr Gln Val Gln Gly
 85 90 95
 Pro Ile Asp Cys Gly Lys Leu Leu Ala Thr *
 100 105 106

<210> 468
 <211> 92
 <212> PRT

<213> Homo sapiens

<400> 468

```

Met Phe Arg Ser Asn Pro Gly Phe Phe Phe Phe Cys Cys Cys Lys Ser
 1           5           10           15
Cys Ile Leu Ala Ile Ser Leu Gly Glu Ile Pro Arg Asn Glu Phe Thr
           20           25           30
Glu Asn Met Ser Leu Arg Glu Ser Glu Asp Leu Lys Pro Asp Leu Ser
           35           40           45
Ala Phe Lys Ser Ser Ala Leu Tyr Thr Asp Val Ser Ser Pro Val Phe
           50           55           60
Phe Thr Tyr Gln Asn Ser Arg Thr Leu Pro Glu Lys Pro Gly Arg Tyr
           65           70           75           80
Cys Ser Thr Pro Val Ser Cys Phe Ser Pro Gly *
           85           90 91

```

<210> 469

<211> 79

<212> PRT

<213> Homo sapiens

<400> 469

```

Met Cys Arg Leu Tyr Ser Cys Ala Arg Met Pro Leu Phe Ser Thr Val
 1           5           10           15
Leu Phe Ser Asn Val Tyr Ile Asn Asp Phe Leu Leu Gln Lys Pro Glu
           20           25           30
Asn Thr Thr Ser Gln Pro Leu Ser Asn Gln Arg Val Val Glu Val Ala
           35           40           45
Ile Pro His Val Gly Lys Phe Met Ile Glu Ser Lys Glu Gly Gly Tyr
           50           55           60
Asp Asp Glu Val Pro Phe Thr Ala Leu Cys Thr Ile Ala Thr *
           65           70           75           78

```

<210> 470

<211> 113

<212> PRT

<213> Homo sapiens

<400> 470

```

Met Gly Ile Gln Trp Thr Cys Glu Trp Pro Ser Ser Leu Ser Pro Gly
 1           5           10           15
Trp Lys Phe Ile Ala Cys Leu Trp Phe Ser Met Trp Gly Ser Arg Pro
           20           25           30
Pro Leu Ser Gln Ala Met Ser His Lys Gln Trp Pro Met Leu Cys Ser
           35           40           45
Ser Ile Ser Asn Pro Glu Ala Ser Gly Thr Glu Leu Phe Thr Tyr His
           50           55           60
Phe His Met Met Gly Tyr Ile Glu Arg Phe Trp Pro Thr Glu Glu Leu
           65           70           75           80
Ala Gln Arg Cys Ser Leu His Lys Glu Leu Pro Cys Thr Val Phe Thr
           85           90           95
Glu Lys His Cys Ser Cys Thr Phe Leu Met Val Phe Gly Val Cys Thr
           100           105           110           112
*
```

<210> 471
 <211> 675
 <212> PRT
 <213> Homo sapiens

<400> 471
 Met Ala Ser Ala Gly Val Val Ser Gly Lys Ile Ile Tyr Glu Gln Glu
 1 5 10 15
 Gly Val Tyr Ile His Ser Ser Cys Gly Lys Thr Asn Asp Gln Asp Gly
 20 25 30
 Leu Ile Ser Gly Ile Leu Arg Val Leu Glu Lys Asp Ala Glu Val Ile
 35 40 45
 Val Asp Trp Arg Pro Leu Asp Asp Ala Leu Asp Ser Ser Ser Ile Leu
 50 55 60
 Tyr Ala Arg Lys Asp Ser Ser Ser Val Val Glu Trp Thr Gln Ala Pro
 65 70 75 80
 Lys Glu Arg Gly His Arg Gly Ser Glu His Leu Asn Ser Tyr Glu Ala
 85 90 95
 Glu Trp Asp Met Val Asn Thr Val Ser Phe Lys Arg Lys Pro His Thr
 100 105 110
 Asn Gly Asp Ala Pro Ser His Arg Asn Gly Lys Ser Lys Trp Ser Phe
 115 120 125
 Leu Phe Ser Leu Thr Asp Leu Lys Ser Ile Lys Gln Asn Lys Glu Gly
 130 135 140
 Met Gly Trp Ser Tyr Leu Val Phe Cys Leu Lys Asp Asp Val Val Leu
 145 150 155 160
 Pro Ala Leu His Phe His Gln Gly Asp Ser Lys Leu Leu Ile Glu Ser
 165 170 175
 Leu Glu Lys Tyr Val Val Leu Cys Glu Ser Pro Gln Asp Lys Arg Thr
 180 185 190
 Leu Leu Val Asn Cys Gln Asn Lys Ser Leu Ser Gln Ser Phe Glu Asn
 195 200 205
 Leu Leu Asp Glu Pro Ala Tyr Gly Leu Ile Gln Lys Ile Lys Lys Asp
 210 215 220
 Pro Tyr Thr Ala Thr Met Ile Gly Phe Ser Lys Val Thr Asn Tyr Ile
 225 230 235 240
 Phe Asp Ser Leu Arg Gly Ser Asp Pro Ser Thr His Gln Arg Pro Pro
 245 250 255
 Ser Glu Met Ala Asp Phe Leu Ser Asp Ala Ile Pro Gly Leu Lys Ile
 260 265 270
 Asn Gln Gln Glu Glu Pro Gly Phe Glu Val Ile Thr Arg Ile Asp Leu
 275 280 285
 Gly Glu Arg Pro Val Val Gln Arg Arg Glu Pro Val Ser Leu Glu Glu
 290 295 300
 Trp Thr Lys Lys Ile Asp Ser Glu Gly Arg Ile Leu Asn Val Asp Asn
 305 310 315 320
 Met Lys Gln Met Ile Phe Arg Gly Gly Leu Ser His Ala Leu Arg Lys
 325 330 335
 Gln Ala Trp Lys Phe Leu Leu Gly Tyr Phe Pro Trp Asp Ser Thr Lys
 340 345 350
 Glu Glu Arg Thr Gln Leu Gln Lys Gln Lys Thr Asp Glu Tyr Phe Arg
 355 360 365
 Met Lys Leu Gln Trp Lys Ser Ile Ser Gln Glu Gln Glu Lys Arg Asn
 370 375 380
 Ser Arg Leu Arg Asp Tyr Arg Ser Leu Ile Glu Lys Asp Val Asn Arg
 385 390 395 400
 Thr Asp Arg Thr Asn Lys Phe Tyr Glu Gly Gln Asp Asn Pro Gly Leu
 405 410 415
 Ile Leu Leu His Asp Ile Leu Met Thr Tyr Cys Met Tyr Asp Phe Asp
 420 425 430
 Leu Gly Tyr Val Gln Gly Met Ser Asp Leu Leu Ser Pro Leu Leu Tyr
 435 440 445

Val Met Glu Asn Glu Val Asp Ala Phe Trp Cys Phe Ala Ser Tyr Met
 450 455 460
 Asp Gln Met His Gln Asn Phe Glu Glu Gln Met Gln Gly Met Lys Thr
 465 470 475 480
 Gln Leu Ile Gln Leu Ser Thr Leu Leu Arg Leu Leu Asp Ser Gly Phe
 485 490 495
 Cys Ser Tyr Leu Glu Ser Gln Asp Ser Gly Tyr Leu Tyr Phe Cys Phe
 500 505 510
 Arg Trp Leu Leu Ile Arg Phe Lys Arg Glu Phe Ser Phe Leu Asp Ile
 515 520 525
 Leu Arg Leu Trp Glu Val Met Trp Thr Glu Leu Pro Cys Thr Asn Phe
 530 535 540
 His Leu Leu Leu Cys Cys Ala Ile Leu Glu Ser Glu Lys Gln Gln Ile
 545 550 555 560
 Met Glu Lys His Tyr Gly Phe Asn Glu Ile Leu Lys His Ile Asn Glu
 565 570 575
 Leu Ser Met Lys Ile Asp Val Glu Asp Ile Leu Cys Lys Ala Glu Ala
 580 585 590
 Ile Ser Leu Gln Met Val Lys Cys Lys Glu Leu Pro Gln Ala Val Cys
 595 600 605
 Glu Ile Leu Gly Leu Gln Gly Ser Glu Val Thr Thr Pro Asp Ser Asp
 610 615 620
 Val Gly Glu Asp Glu Asn Val Val Met Thr Pro Cys Pro Thr Ser Ala
 625 630 635 640
 Phe Gln Ser Asn Ala Leu Pro Thr Leu Ser Ala Ser Gly Ala Arg Asn
 645 650 655
 Asp Ser Pro Thr Gln Ile Pro Val Ser Ser Asp Val Cys Arg Leu Thr
 660 665 670
 Pro Ala *
 674

<210> 472
 <211> 115
 <212> PRT
 <213> Homo sapiens

<400> 472
 Met Gly Leu Glu Thr Gly Ser Val Gly Ser Gly Leu Val Pro Gly Ser
 1 5 10 15
 Met Gly Ala Ser Leu Ala Leu Gly Phe Thr Glu Val Val Leu Val Leu
 20 25 30
 Gly Phe Thr Val Lys Leu Gly Ala His Leu Thr Leu Leu Pro Pro Leu
 35 40 45
 Gly Gly His Leu Ser Pro Tyr Cys Ala Ala Gln Ala Trp Glu Gly Val
 50 55 60
 Lys Gln Leu Met Cys Asn Cys Ser Ser Tyr Pro Leu Gln Cys Ile Ile
 65 70 75 80
 Cys Cys Ile Tyr Ala Thr Pro Gly Cys Tyr Asn Leu Ser Phe Gly Ile
 85 90 95
 Leu Ser Ser Cys Glu Gly Ile Phe Val Tyr Glu Trp Leu Phe Glu Met
 100 105 110
 Leu Leu *
 114

<210> 473
 <211> 1404
 <212> DNA
 <213> Homo sapiens

<400> 473

gctgagaaag	gagggccgct	gcaggcgggg	ttcgaaccgt	ggggtctggg	ctgctcccgc	60
ggagggcctg	ggcgacgcg	ggatgctggg	ggctccgctgc	ctgctgcggg	ccgtgcgctt	120
ctgttctctcc	gcccccttcc	ccaagcacia	accttcagcc	aaactgagcg	tgccggacgc	180
tctcggggct	cagaacgcga	gtggggagcg	cattaagatc	cagggatgga	ttcgttctgt	240
ccgatcccag	aaggaagtct	tgttccctgca	tgtaaatgat	gggtcatctt	tggaaagcct	300
tcaggttggt	gcagattcag	gccttgacag	tagagaatta	acttttgga	gttctgtgga	360
agtacaagg	cagctgataa	aaagtccatc	caaaaggcaa	aatgtggaac	tgaaggcaga	420
aaaaattaaa	gttattggaa	attgtgatgc	caaggatttc	cccatcaa	ataaagagag	480
gcacctctg	gagtacctgc	gacaatatcc	tcactttagg	tgtaggacta	acgttctggg	540
ttctatattg	aggattcgca	gtgaagcgac	agctgctatt	cattctttct	ttaaggacag	600
tggctttgta	catattcata	ctccaataat	cacatccaat	gactctgagg	gagctggaga	660
actttttcaa	cttgaacctt	caggcaaaact	taagggtacct	gaggagaatt	tcttcaatgt	720
tctgcttttc	ttactgtct	caggacaact	tcactagaa	gtgatgtcag	gagcttttac	780
tcaagtgttt	acctttggtc	cgaccttcg	agctgaaaat	tctcagagcc	ggaggcacct	840
ggcagagttt	tatatgatag	aagcagagat	ttcttttgtt	gacagccttc	aagatcttat	900
gcaggttata	gaggaaactgt	tcaaggctac	aacaatgatg	gttctctcaa	aatgtcctga	960
agatgttgaa	ctctgtcaca	aattcatagc	acctggccaa	aaggacagat	tataacatat	1020
gctaaaaaac	aacttttta	tcatttctta	tactgaagca	gtggagatct	taaagcaagc	1080
atcccagaac	ttcaccttta	ccccagagt	gggtgctgac	ctacggactg	aacatgaaaa	1140
gtacctgggt	aagcactgtg	gcaacatacc	tgtctctggt	attaattatc	cattaacact	1200
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<212> DNA

<213> Homo sapiens

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<212> DNA

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<211> 1223

<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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<211> 3690

<212> DNA

<213> Homo sapiens

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<211> 886

<212> DNA

<213> Homo sapiens

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<211> 853

<212> DNA

<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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aatttaatca	ctgacatgca	gagaccttcc	ctcctgcacc	actgtccaat	cagtcacaa	7620
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<210> 487
 <211> 1309
 <212> DNA
 <213> Homo sapiens

<400> 487						
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taaattggca	taatgttaga	taatctat	tgaatcacct	ttaattacat	gtcagaatgc	180
cttaactacc	ctaacttgac	aaaacagaat	tctttggtag	acgcggtggg	ggcgggggtg	240
gggggtctgga	cggagtctct	atttaaggag	aatcatcat	gctatgataa	aacacagaag	300
catgagtggc	aagtggcg	gtatttatt	tgacaaaact	atttgcagtc	tctgtgtatt	360
taaaaagtaa	agaaagtgtc	atccagaagg	gttttgtag	aatgaataca	tttatattag	420
gactgacaac	ttcagctctt	ttgtttaggt	tttcaattat	ttttggtaag	agtatgtagc	480
cttatgatct	ggatatattt	tgcatctatt	ttccaacgcc	tacatttaat	tcctggtaag	540
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tttgtaaagc	tagattgggtg	gtgttttata	caacttattt	actcagctta	cctttttgag	660
aaacgattgt	tagaaattga	cgatgtgttt	gttccagtga	tactgaaagt	agtgggggca	720
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gttggaacca	tagtagaatt	ttccaggtca	cagacccaag	cttccatggg	ttgttactgt	960
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agtttatagc	ttttccatct	atatttataa	agcaatactg	tattataaaa	atcaatattt	1200
ttatcacatg	cttgaaattt	ttattttgtt	gttttaaaat	gtgcactcta	aacatatcag	1260
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<210> 488
 <211> 1130
 <212> DNA
 <213> Homo sapiens

<400> 488						
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tgggactggt	gctgggtacc	gccgcgggcc	ttggattcct	gtgcctcctt	tacagccagc	240
gatggaaaacg	gacccagcgt	catggccgca	gccagagcct	gcccaactcc	ctggactata	300
cgcagacttc	agatcccggg	cgccacgtga	tgctcctgcg	ggctgtccca	gggtgggctg	360
gagatgcctc	agtgtgtccc	agccttccac	gggaaggaca	ggagaagggt	ctggaccgcc	420
tggactttgt	gctgaccagc	cttgtggcgc	tgccggcgga	ggtggaggag	ctgagaagca	480
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agagagtggc	tcggcgggcg	aggtttccgt	ttgtccggga	gaggagtgc	tccactggct	600
ccagctctgt	ctacttcacg	gcctcctcgg	gagccacgtt	cacagatgct	gagagtgaag	660
gggggtgagt	tgctctctct	ggaggcagtt	atggctacag	ccagggttgtg	ttttgtaaaa	720
gtattatcaa	tgaaaaattc	aaaccaagct	gctgcaaatg	atttttggaa	caggtaagag	780
tataataaat	acagaagagt	tgaaaacaaa	aaccatcca	atztatgtca	ttcagacaaa	840
tgtagatggt	aatagcagtt	attgcttgca	tctgttatct	tagtttatta	catagttatg	900
atatattatt	tgggcatttt	tctgtgttat	cacaaggact	tgataagcat	tgtttgactt	960
tgttcctttc	cttgggtggc	tgagctggta	tacggagatg	tctaagcacg	aagcatgtct	1020
ctccctggga	gtcaccctct	tcccacaggg	gagccttgcc	tgtgatcctt	tgcattttta	1080
cagggtgggag	gtggatgtcc	tgagttctca	gtggcccgag	agggctgacg		1130

<210> 489
 <211> 514
 <212> DNA
 <213> Homo sapiens

<400> 489
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 tctcttattt ctcaccctca cttcaaattg ttttaagtagt gaaattcttt tgcctatttc 120
 acctaaaact gagatgaaga ggaatgaggg agaattgtaa taattaactg ttctcctaga 180
 ttctggttcc ttttcccttt cactattcaa cacacatgta agtgccatt aggtgttagg 240
 taccacacta gacacttgga acagatagca gcaaataaga aacactgtcc ctatccatat 300
 gaagtacatt acaatagcag ctactggagg gcaggcatta tattacatac tttgcatgcg 360
 tatctcacat cataccaca ttattattct tttttttttt ttttttttgg aaaaggggtc 420
 cccttttgcc cccagggggg gggggcgggg aaaggatctg ggtaaatggg ctcccaccgg 480
 gggacaaaac caaaatcctt tctgaaaaaa aaaa 514

<210> 490
 <211> 1052
 <212> DNA
 <213> Homo sapiens

<400> 490
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 caatataaaa atatcaattg cataaggaga taaggggcat ttggctaaaa taaaattcag 180
 tgtgccccac cctctccaca tgtaatttgc tctaaaaagg catgaatgac taaattagcc 240
 cttctattct ccagcgcagc tcttgagccc agcgggtggg gcagggtgctt agagcccggg 300
 ctttgctctt ctgccgccag aaaggcgaag gggcacccca accccgggat tctccctctc 360
 ccttttttat aaatagaaga gtgctcaggg tcagtgcatg agaccagcgc tttttgactt 420
 tgcacttatc agagtaactt agggggcctg tttaaaaata cacatttccc tggctgagct 480
 ccagaaaatt ggacttcagt ggttttagcgg gagtgtgcat aggccagggtt attctgagga 540
 ccaacagggg tttaggaattg ccccgtaatt tctggccaag ggagagatca gaccatccag 600
 cattgtccgc agcagagttt tccccctct tttgcaatga atatttgatg ctcagaggga 660
 tgagccccag gatgaggcac acatccaaga aaaatccatg cctctccatc ttttccccag 720
 gattgcccct aggcgagccg ctctttgtga ttccctcact ttccccggtt catagaacag 780
 gcctctctct agtctgtttt gttgtctctt atctgttcaa caaacaccca ctgcgcagga 840
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 tgaaggaacc cgggtcccat aagcccgctc ttctatgggg gctgccccct ctcccatcgc 960
 agggtaaaaag gcaccaggct gttaagcttt tcccaccacc tggaggatcc actctccgtc 1020
 cgtccttccc ggaattacac cacagtggta cg 1052

<210> 491
 <211> 692
 <212> DNA
 <213> Homo sapiens

<400> 491
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 ttgccaacc aattatgtag atattactca ttctaggact aatgatgatg gtaagaagt 120
 tgccagtgtt atggcaatga aaatttcaga aaggaggagt tgatgatctt ctatgatgat 180
 atgaacacct gtctatatct gcatgtatat gttttgacct gcagtgggtg caatgttgat 240
 atgtgttcaa gattattcct gtctacaaaa ctgaaggccc atgttcaaat tgttctttat 300
 tgggtgtttt tatggtcacg tggtacaat tttcttacct aacctacaaa aggttctctt 360
 gatgaacatt tttatttata tttactaatc tttttaaaaa aaagctttca tagcattata 420

taatcagatg	aagaaagccc	agtagaataa	aaaaaaaaatt	cattagccta	gcctatatatta	480
tgttttctgt	caaaggaaaa	caaattctca	aataggaat	tctaaaaata	tttactaaag	540
taaaataact	acttaaaatg	ttttattcca	gttgggaagg	gaagggtaca	ggggaggaaa	600
ttggccaatt	atttagggga	gaagtatatt	tattataaga	tggtgtcctc	aaattagcct	660
accatggcac	gtaggggcag	cagctatatt	ag			692

<210> 492
 <211> 485
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(485)
 <223> n = a,t,c or g

<400> 492						
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gatgtccttg	aactgtatca	catgtggttt	cttggcatat	tatatgatgc	aattttttat	180
tgctttgtcc	atgcaataaa	cgctgataaa	tttttcgggt	taaaattaac	caagtctgct	240
actgtatccc	agaattctca	atgaaagaaa	atattttacag	tttttaacat	tacaggtaga	300
aaaaggatca	aagtgatttt	cttaaatctc	cttctaattc	atggaaaaga	gaacacagtc	360
agtgagggtc	tttgcctctg	ttcccgaatt	ttctttgtcc	aaatggctca	tccttgaatt	420
caagaggagt	ggtgcaggat	ttaattgctc	ccacttgctc	tccttgtgca	aaactgcagc	480
tagaa						485

<210> 493
 <211> 741
 <212> DNA
 <213> Homo sapiens

<400> 493						
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cgattttctt	ttgctcttga	gttttatctt	catagtggca	tcttactggg	ctttcctttc	120
caccatattt	ttggatgttg	tgtgttccat	tttacattgc	ccagttaaac	cacagacact	180
cctgaagtca	tgttttacatg	tggactgcaa	gtcaacctag	ttggcatggt	gatctaagct	240
acaaattgca	ctgctgtttt	gccgaaccca	acagtcgggt	tcttgccatt	atttgcggtg	300
ttttaactta	aaactcacgg	taatccttct	caccccatct	agtttggttt	aattgatcta	360
acaaacactg	cttgtttgaa	ttcaaatgga	ggatccatgg	aagctctccc	acccacacct	420
ttgatacttg	ataagggggc	aaacagtact	tcttttaaat	tcagataatt	ctttgaatga	480
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aggagatatt	cattactgtt	gcagataatt	tcttgcaatg	aaggaaaaaa	ttagacgggtg	600
gatatTTTTT	gttgtgggtg	gtgcataggg	agataggtgg	accataaaac	actcttcctt	660
ggggaccgca	agtctcaacc	tagaactcat	ctttgaagct	gttactttac	ttgaacactc	720
cctttggaag	gggatctcaa	a				741

<210> 494
 <211> 1667
 <212> DNA
 <213> Homo sapiens

<400> 494						
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ggatgagcgt	gtatccccctt	cagaggtgtg	cctggggact	ccgtgtgcgc	gactaggtgc	120

tctctggggg	ctggcagggg	catctgtccc	tttaccggag	caatggggag	ggtgcacacg	180
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tccccgggcc	tctcctaacc	cataggacag	tagtgctcct	ggcttgtgct	gcccagaggc	300
tacctggctt	tcccataattc	accgaccca	ggattaaccc	catggtgggt	ggtatcaggg	360
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tgcaggggga	tcagaatgtc	ccaagcttgg	gacagtctgg	gaaggcagtg	gccatcccat	600
ccagatgagt	acatccctct	ctccttgctt	acttccctcc	taccagccgt	cgcgagggcc	660
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gtgagcctgg	gctttggggc	acagctgctg	ctgacagagg	gtcttggggg	ctgggaaggt	1560
gcttaaagcc	cggcccccat	gcctgagctc	ccacaccctt	gtttaggggc	accagatag	1620
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<210> 495
 <211> 629
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(629)
 <223> n = a,t,c or g

<400> 495	
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acttctatct	ttgttgggtg
tgatgtatc	ctttctgtc
atgttgttat	gtgtgcagat
tattgcatca	aaatttatgt
taagactatt	ttgaatacaa
gcacttactc	ctaagagagg
atacactacc	agttttctcc
actaaaacat	gaaattggga
cccttggggg	gggggccttc
gggttaagtta	tagatttttt
gcacacctac	ttgtacctac
ttcttgtaca	tcataaagat
tattttgggt	tgagtcattg
gtgtattgga	ttacaggata
gcatttggat	tatttcaatt
tgtcttggtc	atatcatgtg
tcataaggata	tgtgtatgat
gcattgagaaa	tctaattgcc
ctggagaggg	ccccccccc
ccgnnggggn	naatttttaa
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60	
120	
180	
240	
300	
360	
420	
480	
540	
600	
629	

<210> 496
 <211> 757
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(757)
 <223> n = a,t,c or g

<400> 496
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 taagtcaaat gaaccaaag tcaaacagtt tggaaaggag agttgaagca gaaggaaact 120
 tccttctgcc cctttgaatt tgttactttt tcttccaatt aaaaatgtgt tattttttaca 180
 ataccattat attgacattg caagggtccc tgatgttttt attgttttct gttgtcactt 240
 tgtatctctt cteccattcc catccactc ccattagcat cttctctgat gtgtttaata 300
 tgtatccttg gatataatg tattctttaca tgggtgtttc tgtaaattta tataaatagt 360
 attacatgat aattctcatt ctgaccttt cttcatttaa aactatgttt ttcagttctg 420
 ttggtgttgt gtttataatg tgcttttagc cactgcattg tatttttatt gctctgtcta 480
 ctgcgtttta tttgcctgtt ccctaagtg acagacacct tatttgttct ccctgtacca 540
 caaacaatgc tctgtgggta tagtggtca cacttatagg ctcatgctt tggggaggat 600
 gacgcagaaa gatcgcttga gcccaggagt ttcaaaccac accgggcaat gagaccctaa 660
 cctcatctct gccacaaatt aaaaacttaa ttgagcacat tggcattgtg ctcccccccc 720
 anctncttca cagactgggg aagaaaaacc attcacc 757

<210> 497
 <211> 429
 <212> DNA
 <213> Homo sapiens

<400> 497
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 cgggtgcccgg gccagctgga cccagcact ggcggcggt tctcgagca caaactctgc 120
 gcggacgacg aatgcagcat gttaatgtac cgcgttgagg ctctgaaga ttccacaggc 180
 ccggtattgtc gttttgtgaa ttttaaaaaa ggtgatcctg tatatgttta ctataaactg 240
 gcaagaggat ggcctgaagt ttgggctgga agtaaatgag atgccacctg tgggtcccaac 300
 tgacaaagat taaggaaggt tggacgcact ttgggatatt ttccaaaaga tttaatccag 360
 gtagttcatg aatataccaa agaagagcta caagttccaa cagatgagac ggattttgtt 420
 tgtttttgag 429

<210> 498
 <211> 385
 <212> DNA
 <213> Homo sapiens

<400> 498
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 tgagggtgtc acaacggggt ggaggagtta attttgggtga gaaggatgca aaagtccccg 180
 ggacctggag agatggagtc aggttccctg gagaaggagc ctcttgggac tcagacaggg 240
 ccagtccctga gcgaaggtag ggaatagggt agtgaacctt gggaaactccg gacctgtta 300
 tctacctca atcacctgcc acaggaggc agggacccca gcgtctttct catataccct 360
 ttttaaggaaa tgctctgctt ttgat 385

<210> 499
 <211> 533
 <212> DNA
 <213> Homo sapiens

<400> 499
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 tatataccaa taatccattt ttctaaaagt tcagagaaac tctgtagctc attattcctg 180

ggatataaagg	taatcctggc	tgggttatga	aattttctct	catgtctctt	ccctatatagac	240
atctcttttg	tatcactcag	gctattcttt	ctgaaatagc	tgaaggtatt	agaaacgac	300
cattcaaatt	ttatctttat	tctgttcttg	cccttttct	ccactattat	atgtatgttt	360
ttgtttcaag	gttcagtatc	tactacttaa	agttacttag	aatttttaag	ttttccta	420
ataaacaagc	atgtgaaaga	aactacttta	attgttatga	tgactaaact	tgtctcaaac	480
caaaaatatg	cgctaaacac	tacgtagtaa	gaatgagacc	agcctgggca	aca	533

<210> 500
 <211> 744
 <212> DNA
 <213> Homo sapiens

<400> 500						
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gctgttttct	ctacgaataa	acaaattggc	gctaaaactg	gtcttgctat	ctagatttct	120
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tatgtacgta	cttttgactt	aggtcagtct	ccacactgca	ttaaaattac	taatgagaca	240
aattgcagtt	ttccagaggt	tcattgttcc	atttctcctt	ccttggcttt	cctgcatttt	300
tagctccagt	caaaattcta	tttattatgt	atcaactttt	ataaaatgct	tggctttgaa	360
aagtataatt	aaaagacaaa	gatctgaaat	taattagcgg	tttttagcta	tctatcatgc	420
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gtctctacta	aaaataaaaa	aaattgacca	ggtggggtgg	tgcatgcctg	tagttccagc	600
tacttgggaa	cgcctagggg	ggaaagaatg	gttgggcccc	cgaggggggg	aaatacacag	660
aggctttggg	gggcccccac	cggccattat	aactgggggg	gaaaaggggg	gcccccccc	720
ccttcctttt	ttttttttta	ttaa				744

<210> 501
 <211> 337
 <212> DNA
 <213> Homo sapiens

<400> 501						
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ccactttgtt	atcccctttg	ctgggtgttc	ctttttatac	cccatctctt	aaaggatggg	180
gcattttttg	tttgagggtt	tattttatgg	taattatagc	cgactgtaac	ctgttcaaaa	240
taataattta	ggagctcttc	tagagtggg	aatgctgaga	atttttaaaa	attactaaaa	300
cttgggaatag	ctttttcaaa	tgccaaagca	gatttgg			337

<210> 502
 <211> 412
 <212> DNA
 <213> Homo sapiens

<400> 502						
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 <212> DNA
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 <211> 407
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<210> 505
 <211> 404
 <212> DNA
 <213> Homo sapiens

<400> 505
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<210> 506
 <211> 1868
 <212> DNA
 <213> Homo sapiens

<220>
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 aaaaaaaa 1868

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 <211> 1073
 <212> DNA
 <213> Homo sapiens

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<210> 508

<211> 1073

<212> DNA

<213> Homo sapiens

<400> 508

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<210> 509

<211> 2027

<212> DNA

<213> Homo sapiens

<400> 509

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 <211> 459
 <212> DNA
 <213> Homo sapiens

<400> 510						
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<210> 511
 <211> 1902
 <212> DNA
 <213> Homo sapiens

<400> 511						
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<210> 512

<211> 1902

<212> DNA

<213> Homo sapiens

<400> 512

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<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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 <212> DNA
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 <211> 2912
 <212> DNA
 <213> Homo sapiens

<400> 520

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<210> 521

<211> 431

<212> DNA

<213> Homo sapiens

<400> 521

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 <212> DNA
 <213> Homo sapiens

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<210> 523
 <211> 447
 <212> DNA
 <213> Homo sapiens

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 <211> 713
 <212> DNA
 <213> Homo sapiens

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<210> 525
<211> 703
<212> DNA
<213> Homo sapiens

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<210> 526
<211> 554
<212> DNA
<213> Homo sapiens

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<400> 526
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<210> 527
<211> 385
<212> DNA
<213> Homo sapiens

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<223> n = a,t,c or g

<400> 527

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<210> 528

<211> 1375

<212> DNA

<213> Homo sapiens

<400> 528

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<210> 529

<211> 1787

<212> DNA

<213> Homo sapiens

<400> 529

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<210> 530
 <211> 611
 <212> DNA
 <213> Homo sapiens

<400> 530						
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actttaaatt	agtagtttat	tttcagttaa	gcacacaaga	aagaaatata	cagtctatct	180
ataatgaaat	cttagttgac	tagatgggtt	gtgggtgtct	aaaaattccc	ataactgac	240
acatggcctt	taaaatagga	agtctgagat	tttttggtt	tctcaacta	tatcctttt	300
aacaagttct	attttatgga	tctttatgta	gtgattttt	ggtagtata	catattctct	360
acttacataa	tcacatatat	aaaaggtaat	gtgggactgt	gttttcaa	cttatttcag	420
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taaactagag	cagggggcaa	gtttaggagc	agccacaact	tttcttgac	atcaacttag	540
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<210> 531
 <211> 968
 <212> DNA
 <213> Homo sapiens

<400> 531						
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ccccatcagt	gctctgagta	ggctgtcatc	agaacaaagg	gctccactgc	tgacaagggt	180
tgagaactgc	tggcttgagg	tgagaacccc	tttaacctct	gcgggacagc	atgtctttcc	240
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ccaggaaaaa	caggctgtcc	ctggcggcag	taagtagcag	gcggcccaag	gtttctggag	840
ctcttggttt	tggcccaacc	ccccacccca	aaatactggg	ttaggacagg	ggactttag	900
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<210> 532
 <211> 729
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(729)
 <223> n = a,t,c or g

```

<400> 532
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atgactgcat taaaatgaaa aacttggtga tgggtccatct gtggggaata tgcacattat      180
atcttgagtt ttctgctgtg tctgccattt ccttcttgaa tcacattagt gttaagacct      240
atttcccaaa cagctcctca ttttacagag caaccccaat ggtccttgac ttcacacctc      300
actaacaaaa tcaaattcaa gcccaattacc tgaagggaac aaagctttac aggtataact      360
taacttacaa aattaccata attggccaag ggtggtggct tacatctgta atcccaatac      420
tttgggaggc tgaggcaggc agattaactt gagctcagga ctttcaagaa aagcctaggg      480
aagataatga gacctcgtct tctatacaaa taccaaaatt agcttggcat gggcgcttaa      540
acctgtcctt cttaaactact caagaggctg aggtgggaag aatacccttg gcccccgga      600
ggggcagggg ttcttggggg aaattgccct ttggccttcc accccggggg caaaaaaaag      660
ggaaacctcg tcttcccnc anaagaanac accccacaaa acagcggggg gtattttttt      720
ttttgggcc                                     729
  
```

<210> 533
 <211> 774
 <212> DNA
 <213> Homo sapiens

```

<400> 533
tctttagtat atataatatt aaaaatggct atatatggaa ttctatctga gaattattat      60
atgggttaat tcaaatctcg gctctcttcc tttgtcttag tagatgggtc cttcttttat      120
tataactaga gttttaagtt ctcttttatt agggcatttg aataaaaaac aatcattgta      180
gaagtataat taattaataa ctagtctatct tatgtcatct tgagggaatc atgctgggat      240
ggcaaactcg gagactgagg ccacaactcc tctccttcca tacacaggac agatgtcact      300
ggtctatcac atctcaatgc tctaagccag agtcccaaga atccttctta agcaccatcc      360
atctattaga gggagcacag gaggggacac ccactgaatg actattcaaa caatttctta      420
aagaatatgc aatgcataat aagtggttga gatacagaat gctactttac taaaatacta      480
cagtgtgaag atgtatagaa aaaagcacat gctttggaga cttaaaggcc tgggtatgaa      540
tcatggctct gacattaaca aacctcacct cctctttaa agagtaataa tgattggtat      600
ctcattgagc ttcgtaaact aaaaaactac agagtaagaa gggggggccc ttacaaaagc      660
tttggagggg gacaaacctg gcgaggaatc atggctctgt ctttatctcc catcaccgcc      720
tctctaaaag agtaaaaatg agtgtttggc atggaacttt gtcttaagaa agaa          774
  
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<210> 534
 <211> 770
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(770)
 <223> n = a,t,c or g

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<400> 534
aaaagaaggt aataaattaa aaagatcatt tacagagata gcctgggggtg ataagagttt    60
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acagtcttct cattttcaaa atgagagaaa cagggatact attatgtttc ttatcagcat    180
taaattatat aacccttgtg acatcccaaa aattgattct atccaaaaaa atgcatgtta    240
atcattatatt gccaaaaaag acaatctcca aatttcttta ttttgtaaaa gtattccatg    300
acctagtctt atagagcagg tgaatattgg agattgtttt ctctgtaact ttactatcat    360
ctacctatct tcgtattttg gtgagagatc atgaaaccct ctatcaaact ctctttatgc    420
agtaagttat aacaaattag cactggctta taaagatata tcaaattaga gtaaaatgca    480
actgaaaata tcataaatca ttcggtaatt aatgttttct taaattcttg gggnaagtac    540
aagagaagaa attggagatg tgcagacttt aaatgacctt aacagtctta cacaggagtt    600
tttgtagtat ggtaagaagg aggtggctac ttatgttttc aaaaagcaca tgacctcatg    660
aaaagtatgc aaggctatgc tgtcgacggt agaaaaacga gagacagaga ataatttaaa    720
gaaccttccc atgttaggcg tgaaaatgaa aaggcttaaa tttaggtgcc    770

```

```

<210> 535
<211> 459
<212> DNA
<213> Homo sapiens

```

```

<400> 535
tgattcaact gattccttga aataaaggta gtcagacctc gcggtatgat ggagatgaag    60
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ggaaaccgtc tgcacacgac agagatcttt ccgagccttt ttcctctagt gtgctgtgct    180
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aatgttataa attaaagcagc tttctgtgtg atagcttttg ggttgaactg agaagggcta    360
agtgaaggga gaagctatgt tgagctcaga gtcagaatgc cctgccccag acattttgag    420
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```

```

<210> 536
<211> 484
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(484)
<223> n = a,t,c or g

```

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<400> 536
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atttgcaaaa atgttacaat gctgctcttc tcaactaaact ttttcttttg gaaaatagtc    180
atgtttcata aaaatgtaat atttatatta acatgtaatg ggtttattat tgttactttt    240
aatgggattg ataaatttat tttaaatatt tctattttta tttctaacac agtaaattgtt    300
aatagccata atccacataa acaaaaagttc tttggggatc tcagtaattt ttaacagtgt    360
aaaggggtcc tgagaccaa aagtttgaga actgctgcaa tcaactataa agagtaagtt    420
tgccctgaac tgcattaact ggtatacttt ttctctgtct ttgatcaata agggcttaaa    480
tatg    484

```

```

<210> 537
<211> 727
<212> DNA
<213> Homo sapiens

```


<400> 537
 gtttaaaatc atcaatgaca tcaaacaaca gcaaaacttc ttacaaaaac aagaagagcc 60
 agtggtgtct gagcatccgc attacgtcct tcccttctgc ctgtgggtac tgaatcagtt 120
 acctgtatga gaccgtttgt gaagctccaa gttgcttggg tgtttaaag gtttcccgca 180
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 cgggtcttca ggctctcccg tctcactaat gcaattaaaa ttctcacaac tgacgacttc 300
 ttcactttct ttttcttcag cactttggct gctagcttct tctagggtat ttttactagc 360
 agattccaac ctctttgtca aaccatcatc tgacttgggt tcagatactt gctctgcgga 420
 tttctgtgac ttcaggaaat tgagcttctt cagatgaatg gcctttttga gcctcatctg 480
 cttgacaggt tgttggcatg tggcgtctga ctgaggtgt ggggcagagt cattcacagg 540
 tgtaaaagt tctgagtttg taatagtaat ttgctgtttt gaaaggcagt tctgtgcagc 600
 tgccatctga agtatcagga gcttgttttg agatttcacc tgcggagtga tgacgattaa 660
 ctgatggtga agcatgcgga tgcgattcat ccaacgtttt gttctgctgt gcatctgctg 720
 aacattc 727

<210> 538
 <211> 3197
 <212> DNA
 <213> Homo sapiens

<400> 538
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 ccttgccctt gctgtccctg ctggctggct ccctacaggg gaagccactg cagagctggg 180
 gacgaggggc tgcctggggg aacgcccaca gccactggg ggtgctctga ggtgggctgc 240
 ctgagcacac ctccaacctg aagatgtttc tggagaacgt gaaggtggat ttctgcgca 300
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 tgattgacct gtacaacagg tacacgtccg ataagtcgac tacgccagcg tccaacattg 420
 tgccggagctt cagcatggaa gatgccatct ccataactgc cacagaggac tcccccttc 480
 agaagcacat ctgtctcttc aacatctcca ttctaggca tgagcagatc accagagctg 540
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 gcgccgtgaa gcgctggggt cggctccgact ccaccaagag caaaaataag ctggaagtga 780
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<210> 539

<211> 444

<212> DNA

<213> Homo sapiens

<400> 539

gacttcggca	cgagaatagc	tgagtttaca	aagatgcatt	aaatagaaat	agaacgcaaa	60
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ctttaagcta	gagagaaaaga	gaaagagaga	ggtaaaacaa	aaatcaaaaa	ggaaaaggct	180
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aagatggtct	gccgatttga	agaatcattt	tcttgcttat	ttttaactc	ttaaagacag	360
ggaaaaagac	tgaaggagcc	taaatgctgt	ggtttctctca	aaccattatt	gttgtaaate	420
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<210> 540

<211> 459

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(459)

<223> n = a,t,c or g

<400> 540

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aggctcatgt	ggtccctacc	cttgaggaga	caaaaatata	cgatgtagat	ggacagctgc	180
attatgcaca	cagatccatt	tcaatataac	atggtgggct	actctgggaa	cactcctgct	240
ccacaaggag	cagtataaaa	aaataaatta	atcaaatttt	aaaaaagcaa	catggtagat	300
cctgggcgct	tagagagtac	tgctcaagtg	ctatgagaac	acttgggcag	agatatctac	360
ccagacatgg	gagtgcgtg	gttgagaaat	ctgatccctac	actgctaaca	cctctgtctg	420
gagaagttct	cgtgccgaag	tcttcagagc	ggttctatn			459

<210> 541

<211> 1266

<212> DNA

<213> Homo sapiens

<400> 541
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 gctattcctt ggacacacct aggatgttct tgccctcttag cttgcctacc tttctctcat 120
 catttggggc tcagcgagga tatcatctcc tcagagaagc cttctgtgac catgctatct 180
 aaaatactcc agcacttcag tcaccttta tcccattact ctgctttttc agaaacattg 240
 gtgctccctg aaacgtatth gtthacttgc ttagcgtctt ttctcccgca ctaccatgta 300
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 atagtaggtt ctcaatacat atttttgaaa ctctaccctg atgcaaaaga gatatcaaat 420
 aattatagtt tttgcattat aaatgtcttt ggtgaaatcc ctggcacaaa actaataata 480
 aagaaataaa cagataatgg tgagttctgg gcctgcaaac ctaactcttt aaagcagtca 540
 cagtaaatgt gtcattggat ccatagaact tgggaagtca gcatatthta ttgggaaaag 600
 catgaacttc aaagtaaaac ttatgggtcaa atctcattac tgggtgcgttc ttaagtcatt 660
 taacctttga gccacaaggt acacaaatgt gaatttagag gaataatagt gactccataa 720
 gacctcaag aaaaggaaat aaggtattgt agcccgatga tccttatcac atggctaaca 780
 aattaggggg tctaaaattc tgggtatggg ataccggaa acacgtcacg catgtagggg 840
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 <211> 647
 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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<210> 544
 <211> 446
 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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 ctacaacca ataacagaca tgagggatgg ccctgtctct ctgggacaga gcctcaaaga 660
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<210> 546
 <211> 1076
 <212> DNA
 <213> Homo sapiens

<400> 546
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 aaaaaactaa acggaaggta gtgccacctt ctccctatgac tgatcctact atgttgacag 540
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<210> 547
 <211> 749
 <212> DNA
 <213> Homo sapiens

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tgctctttact	gataattgtg	ttcaatatcc	ccatgaggga	ggcagtcttt	gactttttat	360
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 <211> 783
 <212> DNA
 <213> Homo sapiens

<400> 548						
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ccagtctccc	tgctactctt	ctcttcctat	agtttattct	caacatatcc	agacacatgt	420
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<210> 549
 <211> 429
 <212> DNA
 <213> Homo sapiens

<400> 549						
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<210> 550
 <211> 882
 <212> DNA
 <213> Homo sapiens

<400> 550						
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<210> 551
 <211> 976
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)... (976)
 <223> n = a,t,c or g

<400> 551						
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 <211> 1644
 <212> DNA
 <213> Homo sapiens

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<210> 553
 <211> 1094
 <212> DNA
 <213> Homo sapiens

<400> 553
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1094

<210> 554
<211> 625
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(625)
<223> n = a,t,c or g

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<210> 555
<211> 376
<212> DNA
<213> Homo sapiens

<400> 555
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<210> 556
<211> 842
<212> DNA
<213> Homo sapiens

<400> 556
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cc						842

<210> 557
 <211> 677
 <212> DNA
 <213> Homo sapiens

<400> 557						
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<210> 558
 <211> 1828
 <212> DNA
 <213> Homo sapiens

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 <211> 392
 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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 <213> Homo sapiens

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 <211> 612
 <212> DNA
 <213> Homo sapiens

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 <211> 791
 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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 <212> DNA
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 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

<400> 568

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<213> Homo sapiens

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<211> 876

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 869

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<210> 602

<211> 868

<212> DNA

<213> Homo sapiens

<400> 602

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<210> 603

<211> 1001

<212> DNA

<213> Homo sapiens

<400> 603


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<210> 604
<211> 1301
<212> DNA
<213> Homo sapiens

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<222> (1) ... (1301)
<223> n = a,t,c or g

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<210> 605
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<212> DNA
<213> Homo sapiens

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<400> 605

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<210> 606

<211> 398

<212> DNA

<213> Homo sapiens

<400> 606

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<210> 607

<211> 1121

<212> DNA

<213> Homo sapiens

<400> 607

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<210> 608

<211> 774

<212> DNA

<213> Homo sapiens

<400> 608

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<210> 609

<211> 1145

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (1145)

<223> n = a,t,c or g

<400> 609

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<210> 610

<211> 1192

<212> DNA

<213> Homo sapiens

<400> 610

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<210> 611

<211> 1897

<212> DNA

<213> Homo sapiens

<400> 611

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<210> 612

<211> 594

<212> DNA

<213> Homo sapiens

<400> 612
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 <212> DNA
 <213> Homo sapiens

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 <213> Homo sapiens

<400> 614						
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 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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 aggaagtgtc gcagcttcct ttaacctgca gcagctgctg tgtctgtacc atgacctgtg 240
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 <211> 839
 <212> DNA
 <213> Homo sapiens

<400> 617
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 <211> 1648
 <212> DNA
 <213> Homo sapiens

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<211> 739

<212> DNA

<213> Homo sapiens

<400> 619

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<210> 620

<211> 1066

<212> DNA

<213> Homo sapiens

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 <211> 436
 <212> DNA
 <213> Homo sapiens

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ggatctttat	tatagtggaa	atggggccag	ttgatgaagt	ctaatatgaa	acgaatatatt	360
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 <212> DNA
 <213> Homo sapiens

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 <223> n = a,t,c or g

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<210> 623
 <211> 417
 <212> DNA
 <213> Homo sapiens

<400> 623						
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aaaggaaata	tgtgataagt	tgataaatta	ctgctacaaa	attttaaattc	tggccctaaa	360
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<210> 624

<211> 612

<212> DNA

<213> Homo sapiens

<400> 624

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<210> 625

<211> 434

<212> DNA

<213> Homo sapiens

<400> 625

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<211> 1026

<212> DNA

<213> Homo sapiens

<400> 626

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<211> 1821

<212> DNA

<213> Homo sapiens

<400> 627

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<210> 628

<211> 821

<212> DNA

<213> Homo sapiens

<400> 628

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<211> 877

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(877)

<223> n = a,t,c or g

<400> 629

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<210> 630

<211> 3229

<212> DNA

<213> Homo sapiens

<400> 630

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<400> 631						
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<211> 1253

<212> DNA

<213> Homo sapiens

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<210> 636

<211> 1944

<212> DNA

<213> Homo sapiens

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<210> 637
<211> 792
<212> DNA
<213> Homo sapiens

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<212> DNA
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<211> 958

<212> DNA

<213> Homo sapiens

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<211> 958

<212> DNA

<213> Homo sapiens

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<211> 1710
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 <212> DNA
 <213> Homo sapiens

<400> 644						
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<210> 645

<211> 1832

<212> DNA

<213> Homo sapiens

<400> 645

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<211> 2393

<212> DNA

<213> Homo sapiens

<400> 646

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<211> 378

<212> DNA

<213> Homo sapiens

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<211> 636

<212> DNA

<213> Homo sapiens

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 <211> 636
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 <212> DNA
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 <211> 378
 <212> DNA
 <213> Homo sapiens

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 <213> Homo sapiens

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ggcttaagat	tagcatgctt	cagctatgtt	cttgcctcta	tcaaagtga	acctgggggt	300
ggctcagaga	cagtgacgg	gtttagaatc	ccagagagca	cacctcact	aaaggccggt	360
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<210> 653
 <211> 581
 <212> DNA
 <213> Homo sapiens

<400> 653						
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tcattccaaa	tcactggaga	ggaggcagaa	ttttgtcact	gggacagcag	tcacttggcc	480
cagaatcttc	tacagattcc	ctccaggag	cccttcccat	tggtcttttc	ctagaaattt	540
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<210> 654
 <211> 701
 <212> DNA
 <213> Homo sapiens

<400> 654						
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cctccccggg	tcacgctatt	cttctgcctc	aacctcccga	gtagctggga	ttacaggtgt	480
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ccaggctagc	tggggaactcc	tgacctcaag	ggatccaccc	accttggcct	cccacagggc	600
tgggattaca	ggcatgagcc	accgcacctg	ggcaaaagtg	ttccttaaaa	gagtgatttt	660

tctaaataga gaatacgatt tgactatggt ttgcttttta a

701

<210> 655
 <211> 628
 <212> DNA
 <213> Homo sapiens

<400> 655
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 ttgaaaaaac tcatgttggt accaacattt ctctcttttag tgtgtgattt tccctttttt 180
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 agaaccagaa ccttgctcaa aaaaaaaa 628

<210> 656
 <211> 717
 <212> DNA
 <213> Homo sapiens

<400> 656
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<210> 657
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 <212> DNA
 <213> Homo sapiens

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<210> 658
 <211> 419
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(419)
 <223> n = a,t,c or g

<400> 658
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 gaaggaatgt acttatttgt caagattcgt ctaaaaatgt ggtctccaga aatgaacata 180
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<210> 659
 <211> 3032
 <212> DNA
 <213> Homo sapiens

<400> 659
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<210> 660

<211> 846

<212> DNA

<213> Homo sapiens

<400> 660

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<210> 661

<211> 1859

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1859)

<223> n = a, t, c or g

<400> 661

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<210> 662

<211> 1622

<212> DNA

<213> Homo sapiens

<400> 662

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ct 1622

<210> 663
<211> 1404
<212> DNA
<213> Homo sapiens

<400> 663
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<210> 664
<211> 1745
<212> DNA
<213> Homo sapiens

<400> 664
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<210> 665
 <211> 770
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> n = a,t,c or g

<400> 665						
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<210> 666
 <211> 864
 <212> DNA
 <213> Homo sapiens

<400> 666						
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864

<210> 667
 <211> 831
 <212> DNA
 <213> Homo sapiens

<400> 667
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<210> 668
 <211> 1652
 <212> DNA
 <213> Homo sapiens

<400> 668
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<210> 669
 <211> 934
 <212> DNA
 <213> Homo sapiens

<400> 669
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<210> 670
 <211> 831
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(831)
 <223> n = a,t,c or g

<400> 670
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 gtatctacgt gggacggcta tatctaggca cgtggaggac cgacggcgtc g 831

<210> 671
 <211> 1790
 <212> DNA
 <213> Homo sapiens

<400> 671

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<210> 672

<211> 703

<212> DNA

<213> Homo sapiens

<400> 672

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<210> 673

<211> 732

<212> DNA

<213> Homo sapiens

<400> 673

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<210> 674

<211> 366

<212> DNA

<213> Homo sapiens

<400> 674

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caccog						366

<210> 675

<211> 360

<212> DNA

<213> Homo sapiens

<400> 675

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<210> 676

<211> 709

<212> DNA

<213> Homo sapiens

<400> 676

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 <211> 394
 <212> DNA
 <213> Homo sapiens

<400> 677
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 <211> 624
 <212> DNA
 <213> Homo sapiens

<400> 678
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 <212> DNA
 <213> Homo sapiens

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<210> 680
 <211> 1753
 <212> DNA
 <213> Homo sapiens

<400> 680
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 <212> DNA
 <213> Homo sapiens

<400> 681
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<210> 682
 <211> 1057
 <212> DNA
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 <220>
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 <223> n = a,t,c or g

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 <211> 1930
 <212> DNA
 <213> Homo sapiens

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<211> 1576

<212> DNA

<213> Homo sapiens

<400> 684

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<210> 685

<211> 1576

<212> DNA

<213> Homo sapiens

<400> 685

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<211> 1464

<212> DNA

<213> Homo sapiens

<400> 686

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<212> DNA
<213> Homo sapiens

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<210> 688
<211> 1882
<212> DNA
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<400> 688
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<210> 689

<211> 1882

<212> DNA

<213> Homo sapiens

<400> 689

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 <212> DNA
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<211> 2121

<212> DNA

<213> Homo sapiens

<400> 694

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<210> 695

<211> 413

<212> DNA

<213> Homo sapiens

<400> 695

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<210> 696

<211> 1072

<212> DNA

<213> Homo sapiens

<400> 696

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<210> 697

<211> 2177

<212> DNA

<213> Homo sapiens

<400> 697

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<210> 698

<211> 854

<212> DNA

<213> Homo sapiens

<400> 698

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<210> 699

<211> 551

<212> DNA

<213> Homo sapiens

<400> 699

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<210> 700

<211> 1545

<212> DNA

<213> Homo sapiens

<220>

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<400> 700

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<210> 701

<211> 1441

<212> DNA

<213> Homo sapiens

<400> 701

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<210> 702

<211> 371

<212> DNA

<213> Homo sapiens

<400> 702

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 <211> 411
 <212> DNA
 <213> Homo sapiens

<400> 703
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<210> 704
 <211> 631
 <212> DNA
 <213> Homo sapiens

<400> 704
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<210> 705
 <211> 414
 <212> DNA
 <213> Homo sapiens

<400> 705
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<210> 706
 <211> 852
 <212> DNA
 <213> Homo sapiens

<400> 706
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<210> 707

<211> 1987

<212> DNA

<213> Homo sapiens

<400> 707

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tatgactatt	taaaagaggc	tcttaatttt	gtaactcctg	ttatgtgaat	ctaaaggctc	300
gattgttaaa	gcagttgaac	ccaaaagtct	tgttttatgt	ggcttactca	tggtagtttg	360
gcattgctaa	ccactctggg	cttgcaactt	tcttgtaaat	ttttgcaaca	ttattctcgc	420
ttgatttttt	tctttacttc	tctgactggg	ctttcttaaa	cctgtccttg	agtgtatact	480
cttacatttg	atgttcctct	ggattatctc	ttcaccctc	ttctttctca	tgatgctctt	540
gcacattatt	tttaaaaata	ttaccctact	ttgatagtgt	atctgcactg	agacatgtac	600
tggaagctat	atatgttttg	acatctcaat	ctaaaacaac	tcacttttct	tacttatgac	660
tagagttcct	cctcttcatt	tatattcttt	tcttggtgaa	catcagtgtc	taccaatttc	720
taaatgcaaa	ggagaaagat	acaattttta	gcgaaatggg	ggcgatatgc	acaacttgca	780
gaaggttaca	taaaacttgg	gttttcagag	atgatttttt	cttttctttt	taggatattg	840
tcagggaatg	agtgattttac	tttccctctc	tttatatgtg	atggaaaatg	aagtggatgc	900
cttttgggtg	tttgctctct	acatggacca	aatgcacag	aattttgaag	aacaaatgca	960
aggcatgaag	acccagctaa	ttcagctgag	taccttactt	cgattgttag	acagtggatt	1020
ttgcagttac	ttagaatctc	aggactctgg	atacctttat	ttttgcttca	ggtggctttt	1080
aatcagattc	aaaagggaat	ttagttttct	agatattctt	cgattatggg	aggtaatgtg	1140
gaccgaacta	ccatgtacaa	atttccatct	tcttctctgt	tgtgctattc	tggaatcaga	1200
aaagcagcaa	ataatggaaa	agcattatgg	cttcaatgaa	atacttaagc	atatcaatga	1260
attgtccatg	aaaattgatg	tggaagatat	actctgcaag	gcagaagcaa	tttctctaca	1320
gatggtaaaa	tgcaagggaat	tgccacaagc	agtctgtgag	atccttgggc	ttcaaggcag	1380
tgaagttaaa	acaccagatt	cagacgttgg	tgaagacgaa	aatgttgtca	tgactccttg	1440
tcctacatct	gcatttcaaa	gtaatgcctt	gcctacactc	tctgccagtg	gagccagaaa	1500
tgacagccca	acacagatac	cagtgtcctc	agatgtctgc	agattaacac	ctgcatgac	1560
actgttcttg	cttttttggg	aagagacact	ttgttgcaac	cctttttcaa	gtacttgaaa	1620
gttgaaaatt	tgaaatcttg	gtattgatca	tgctttaagg	tttatgtaaa	gaaagtgtac	1680
tgatgttctt	acattaaagc	tttacaaga	tttaaaacta	ttatttttgt	agttacttct	1740
accaaaatag	ctttcccttt	cgataacatt	cctcagttat	tttatagcca	agtacatttt	1800
attttcttgc	tgatgaactg	gaattggata	aatattgcaa	gtggatgagt	tggaatttat	1860
gcactttgaa	aaacattcac	tttgtttaag	cttattgggt	ttcagatttg	attaaattaa	1920
atgtggaggc	tttctatagc	attctaagct	gagaagtaga	ttgttacc	gtaatgaaat	1980
aaaaaat						1987

<210> 708

<211> 400

<212> DNA

<213> Homo sapiens

<400> 708
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 tctagtgcctg gggttcacag taaagttagg ggctcacttg actctccttc ctccacttgg 120
 agggcatcta tctccatact gtgctgcaca ggcttgggaa ggggtgaaac aattaatgtg 180
 caactgtagt tcctatcctc ttcaatgcat catttggtgt atctatgcta caccgggtg 240
 ctacaatcta tcatttgga tcccttagctc ttgtgaaggt attttgtct atgagtgggt 300
 attcgaaatg cttctgtgaa gaaacaaatg ctgaaaacta ctattctgac attttactaa 360
 catcactctt cctatttaac ttttaaatat gatgaagtca 400

<210> 709

<211> 55

<212> PRT

<213> Homo sapiens

<400> 709
 Met Gly Lys Ser Leu Ala Ser Gln Phe Pro Ile Thr Leu Ile Phe Ser
 1 5 10 15
 Ala Phe Ser Ser Thr Phe Cys Leu Leu Asp Gly Leu Phe Ile Ser Cys
 20 25 30
 Pro Cys Thr Ser Thr Glu Leu Pro Lys Val Asn Ser Leu Leu Ser Arg
 35 40 45
 Pro Glu Ser Ala Thr Thr *
 50 54

<210> 710

<211> 55

<212> PRT

<213> Homo sapiens

<400> 710
 Met Leu Ala Leu Ser Ser Ser Phe Leu Val Leu Ser Tyr Leu Leu Thr
 1 5 10 15
 Arg Trp Cys Gly Ser Val Gly Phe Ile Leu Ala Asn Cys Phe Asn Met
 20 25 30
 Gly Ile Arg Ile Thr Gln Ser Leu Cys Phe Ile His Arg Tyr Tyr Arg
 35 40 45
 Arg Ser Pro His Arg Pro Leu
 50 55

<210> 711

<211> 172

<212> PRT

<213> Homo sapiens

<400> 711
 Met Lys Val Leu Trp Ala Ala Leu Leu Val Thr Phe Leu Ala Gly Cys
 1 5 10 15
 Gln Ala Lys Val Glu Gln Ala Val Glu Thr Glu Pro Glu Pro Glu Leu
 20 25 30
 Arg Gln Gln Thr Glu Trp Gln Ser Gly Gln Arg Trp Glu Leu Ala Leu
 35 40 45
 Gly Arg Phe Trp Asp Tyr Leu Arg Trp Val Gln Thr Leu Ser Glu Gln

```

      50              55              60
Val Gln Glu Glu Leu Leu Ser Ser Gln Val Thr Gln Glu Leu Arg Ala
 65              70              75              80
Leu Met Asp Glu Thr Met Lys Glu Leu Lys Ala Tyr Lys Ser Glu Leu
      85              90              95
Glu Glu Gln Leu Thr Pro Val Ala Glu Glu Thr Arg Ala Arg Leu Ser
      100              105              110
Lys Glu Leu Gln Ala Ala Gln Ala Arg Leu Gly Ala Asp Met Glu Asp
      115              120              125
Val Cys Gly Arg Leu Gly Ala Val Thr Ala Val Met Val Gln Gly His
      130              135              140
Ala Arg Pro Glu Gln Pro Arg Ser Cys Gly Trp Arg Val Arg Leu Pro
      145              150              155              160
Pro Ala Gln Ala Gly Val Ser Gly Ser Leu Arg *
      165              170 171

```

<210> 712
 <211> 55
 <212> PRT
 <213> Homo sapiens

```

      <400> 712
Met Phe Arg Arg Leu Thr Phe Ala Gln Leu Leu Phe Ala Thr Val Leu
 1              5              10              15
Gly Ile Ala Gly Gly Val Tyr Ile Phe Gln Pro Val Phe Glu Gln Tyr
      20              25              30
Ala Lys Asp Gln Lys Glu Leu Lys Glu Lys Met Gln Leu Val Gln Glu
      35              40              45
Ser Glu Glu Lys Lys Ser *
      50              54

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<210> 713
 <211> 366
 <212> PRT
 <213> Homo sapiens

```

      <400> 713
Met Ser Leu Leu Gly Phe Leu Leu Ser Arg Leu Gly Leu Leu Lys
 1              5              10              15
Val Leu Leu Asp Trp Pro Val Glu Val Leu Tyr Gly Ala Ala Ala Leu
      20              25              30
Asn Gly Leu Phe Gly Gly Phe Ser Ala Phe Trp Ser Gly Val Met Ala
      35              40              45
Leu Gly Ser Leu Gly Ser Ser Glu Gly Arg Arg Ser Val Arg Leu Ile
      50              55              60
Leu Ile Asp Leu Met Leu Gly Leu Ala Gly Phe Cys Gly Ser Met Ala
      65              70              75              80
Ser Gly His Leu Phe Lys Gln Met Ala Gly His Ser Gly Gln Gly Leu
      85              90              95
Ile Leu Thr Ala Cys Ser Val Ser Cys Ala Ser Phe Ala Leu Leu Tyr
      100              105              110
Ser Leu Leu Val Leu Lys Val Pro Glu Ser Val Ala Lys Pro Ser Gln
      115              120              125
Glu Leu Pro Ala Val Asp Thr Val Ser Gly Thr Val Gly Thr Tyr Arg
      130              135              140
Thr Leu Asp Pro Asp Gln Leu Asp Gln Gln Tyr Ala Val Gly His Pro
      145              150              155              160
Pro Ser Pro Gly Lys Ala Lys Pro His Lys Thr Thr Ile Ala Leu Leu

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165      170      175
Phe Val Gly Ala Ile Ile Tyr Asp Leu Ala Val Val Gly Thr Val Asp
180      185      190
Val Ile Pro Leu Phe Val Leu Arg Glu Pro Leu Gly Trp Asn Gln Val
195      200      205
Gln Val Gly Tyr Gly Met Ala Ala Gly Tyr Thr Ile Phe Ile Thr Ser
210      215      220
Phe Leu Gly Val Leu Val Phe Ser Arg Cys Phe Arg Asp Thr Thr Met
225      230      235      240
Ile Met Ile Gly Met Val Ser Phe Gly Ser Gly Ala Leu Leu Leu Ala
245      250      255
Phe Val Lys Glu Thr Tyr Met Phe Tyr Ile Ala Arg Ala Val Met Leu
260      265      270
Phe Ala Leu Ile Pro Val Thr Thr Ile Arg Ser Ala Met Ser Lys Leu
275      280      285
Ile Lys Gly Ser Ser Tyr Gly Lys Val Phe Val Ile Leu Gln Leu Ser
290      295      300
Leu Ala Leu Thr Gly Val Val Thr Ser Thr Leu Tyr Asn Lys Ile Tyr
305      310      315      320
Gln Leu Thr Met Asp Met Phe Gly Gly Ser Cys Phe Ala Leu Ser Ser
325      330      335
Phe Leu Ser Phe Leu Ala Ile Ile Pro Ile Ser Ile Val Ala Tyr Lys
340      345      350
Gln Val Pro Leu Ser Pro Tyr Gly Asp Ile Ile Glu Lys *
355      360      365

```

<210> 714
 <211> 131
 <212> PRT
 <213> Homo sapiens

```

<400> 714
Met Phe Leu Phe Leu Phe Phe Leu Val Ala Ile Leu Pro Val Asn Thr
1      5      10      15
Glu Gly Gly Glu Ile Ile Trp Gly Thr Glu Ser Lys Pro His Ser Arg
20      25      30
Pro Tyr Met Ala Phe Ile Lys Phe Tyr Asp Ser Asn Ser Glu Pro His
35      40      45
His Cys Gly Gly Phe Leu Val Ala Lys Asp Ile Val Met Thr Ala Ala
50      55      60
His Cys Asn Gly Arg Asn Ile Lys Val Thr Leu Gly Ala His Asn Ile
65      70      75      80
Lys Lys Gln Glu Asn Thr Gln Val Ile Ser Val Val Lys Ala Lys Pro
85      90      95
His Glu Asn Tyr Asp Arg Asp Ser His Phe Asn Asp Ile Met Leu Leu
100      105      110
Lys Leu Glu Arg Lys Ala Gln Leu Asn Gly Cys Cys Glu Asp Tyr Cys
115      120      125
Pro Ser *
130

```

<210> 715
 <211> 262
 <212> PRT
 <213> Homo sapiens

```

<400> 715
Met Leu Val Leu Leu Val Leu Arg Val Ser Leu Ala Ala Leu Val Lys

```

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1           5           10           15
Met Glu Leu Leu Val Arg Trp Ala Pro Val Ala Cys Leu Val Arg Glu
20           25           30
Val Ala Leu Glu Pro Leu Ala Leu Leu Val Leu Val Glu Met Met Val
35           40           45
Leu Leu Val Leu Pro Gly Pro Leu Val Pro Pro Ala Pro Leu Val Leu
50           55           60
Leu Ala Ser Leu Val Leu Leu Val Leu Arg Val Lys Leu Val Pro Lys
65           70           75           80
Gly Pro Glu Ala Leu Lys Val Pro Arg Val Cys Val Val Ser Leu Ala
85           90           95
Pro Leu Ala Leu Val Leu Leu Ala Leu Leu Glu Thr Leu Val Leu
100          105          110
Arg Glu Ser Leu Val Leu Lys Val Pro Met Val Leu Leu Val Leu Leu
115          120          125
Val Leu Leu Ala Ser Leu Val Pro Glu Ala Pro Leu Asp Pro Arg Ala
130          135          140
Pro Ala Ala Leu Leu Val Pro Arg Val Thr Ala Val Asn Leu Val Leu
145          150          155          160
Leu Ala Ala Lys Glu Thr Leu Val Leu Arg Glu Ser Leu Ala Leu Leu
165          170          175
Val Phe Lys Asp Pro Leu Ala Leu Leu Glu Arg Lys Glu Ser Glu Glu
180          185          190
Leu Glu Val Asn Pro Asp Pro Leu Ala Cys Pro Asp Pro Leu Ala Ser
195          200          205
Val Val Asp Leu Val Ala Val Val Ser Leu Ala Gln Met Val Leu Leu
210          215          220
Val Pro Arg Val Pro Leu Val Asn Val Val Leu Leu Ala Leu Leu Ala
225          230          235          240
Pro Lys Asp Leu Leu Val Lys Leu Val Val Pro Val Lys Leu Val Cys
245          250          255
Leu Val Pro Arg Val *
260 261

```

<210> 716
 <211> 54
 <212> PRT
 <213> Homo sapiens

```

<400> 716
Met Met Leu Leu Val Ser Leu His Ile Leu Phe Pro Phe Met Pro Phe
1           5           10           15
Ser Tyr Gly Leu Glu Ser Asn Asn Ser Lys Pro Gln Cys Leu Met Lys
20           25           30
Leu Thr Leu Gln Asn Leu Gln Lys Gln Val Ala Phe Glu Val Phe Ser
35           40           45
His Thr Lys Tyr Asn *
50           53

```

<210> 717
 <211> 183
 <212> PRT
 <213> Homo sapiens

```

<400> 717
Met Gly Trp Thr Met Arg Leu Val Thr Ala Ala Leu Leu Leu Gly Leu
1           5           10           15
Met Met Val Val Thr Gly Asp Glu Asp Glu Asn Ser Pro Cys Ala His

```

```

      20      25      30
Glu Ala Leu Leu Asp Glu Asp Thr Leu Phe Cys Gln Gly Leu Glu Val
      35      40      45
Phe Tyr Pro Glu Leu Gly Asn Ile Gly Cys Lys Val Val Pro Asp Cys
      50      55      60
Asn Asn Tyr Arg Gln Lys Ile Thr Ser Trp Met Glu Pro Ile Val Lys
      65      70      75      80
Phe Pro Gly Ala Val Asp Gly Ala Thr Tyr Ile Leu Val Met Val Asp
      85      90      95
Pro Asp Ala Pro Ser Arg Ala Glu Pro Arg Gln Arg Phe Trp Arg His
      100      105      110
Trp Leu Val Thr Asp Ile Lys Gly Ala Asp Leu Lys Glu Gly Lys Ile
      115      120      125
Gln Gly Gln Glu Leu Ser Ala Leu Pro Gly Ser Leu Pro His Arg His
      130      135      140
Thr Val Ala Phe His Arg Tyr Gln Val Leu Cys Leu Ser Ser Gly Arg
      145      150      155      160
Glu Lys Ser Ser Leu Ser Phe Pro Arg Lys Thr Lys Leu Glu Ala Leu
      165      170      175
Gly Lys Trp Thr Asp Phe *
      180      182

```

<210> 718

<211> 88

<212> PRT

<213> Homo sapiens

<400> 718

```

Met Arg Arg Ser Phe Trp Thr Val Met Arg Thr Ala Trp Arg Cys Ser
  1      5      10      15
Cys Ser Ser Val Asp Arg Ala Leu Ser His Gln Ala Gly Leu Gln Gly
      20      25      30
Gln Cys Leu Ser Ala Cys Leu Leu Gly Asn Leu Gly Tyr Pro Pro Phe
      35      40      45
Ile Ser Pro Pro Ala Gln Val Leu Cys Ala Ala Arg Ala Ser Cys His
      50      55      60
Leu Gly Ser Leu Met Ala His Phe Glu Thr Leu Val His Ser Lys Asp
      65      70      75      80
Trp Ser Cys Val Ile Leu Lys *
      85      87

```

<210> 719

<211> 315

<212> PRT

<213> Homo sapiens

<400> 719

```

Met Leu Phe Trp Val Leu Gly Leu Leu Ile Leu Cys Gly Phe Leu Trp
  1      5      10      15
Thr Arg Lys Gly Lys Leu Lys Ile Glu Asp Ile Thr Asp Lys Tyr Ile
      20      25      30
Phe Ile Thr Gly Cys Asp Ser Gly Phe Gly Asn Leu Ala Ala Arg Thr
      35      40      45
Phe Asp Lys Lys Gly Phe His Val Ile Ala Ala Cys Leu Thr Glu Ser
      50      55      60
Gly Ser Thr Ala Leu Lys Ala Glu Thr Ser Glu Arg Leu Arg Thr Val
      65      70      75      80
Leu Leu Asp Val Thr Asp Pro Glu Asn Val Lys Arg Thr Ala Gln Trp

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      85      90      95
Val Lys Asn Gln Val Gly Glu Lys Gly Leu Trp Gly Leu Ile Asn Asn
      100      105      110
Ala Gly Val Pro Gly Val Leu Ala Pro Thr Asp Trp Leu Thr Leu Glu
      115      120      125
Asp Tyr Arg Glu Pro Ile Glu Val Asn Leu Phe Gly Leu Ile Ser Val
      130      135      140
Thr Leu Asn Met Leu Pro Leu Val Lys Lys Ala Gln Gly Arg Val Ile
      145      150      155      160
Asn Val Ser Ser Val Gly Gly Arg Leu Ala Ile Val Gly Gly Gly Tyr
      165      170      175
Thr Pro Ser Lys Tyr Ala Val Glu Gly Phe Asn Asp Ser Leu Arg Arg
      180      185      190
Asp Met Lys Ala Phe Gly Val His Val Ser Cys Ile Glu Pro Gly Leu
      195      200      205
Phe Lys Thr Asn Leu Ala Asp Pro Val Lys Val Ile Glu Lys Lys Leu
      210      215      220
Ala Ile Trp Glu Gln Leu Ser Pro Asp Ile Lys Gln Gln Tyr Gly Glu
      225      230      235      240
Gly Tyr Ile Glu Lys Ser Leu Asp Lys Leu Lys Gly Asn Lys Ser Tyr
      245      250      255
Val Asn Met Asp Leu Ser Pro Val Val Glu Cys Met Asp His Ala Leu
      260      265      270
Thr Ser Leu Phe Pro Lys Thr His Tyr Ala Ala Gly Lys Asp Ala Lys
      275      280      285
Ile Phe Trp Ile Pro Leu Ser His Met Pro Ala Ala Leu Gln Asp Phe
      290      295      300
Leu Leu Leu Lys Gln Lys Ala Arg Ala Gly *
      305      310      314

```

<210> 720

<211> 120

<212> PRT

<213> Homo sapiens

<400> 720

```

Met Ser Val Pro Thr Met Ala Trp Met Met Leu Leu Leu Gly Leu Leu
  1      5      10      15
Ala Tyr Gly Ser Gly Val Glu Ser Gln Thr Val Val Thr Gln Glu Pro
      20      25      30
Ser Leu Ser Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly Leu
      35      40      45
Thr Ser Gly Ser Val Ser Thr Ser Phe Tyr Pro Ser Trp Tyr Gln Gln
      50      55      60
Thr Pro Gly Gln Ala Pro Arg Thr Leu Ile Tyr Ser Thr Asn Thr Arg
      65      70      75      80
Ser Ser Gly Val Pro Gly Arg Phe Ser Gly Ser Ile Leu Gly Ser Lys
      85      90      95
Ala Ala Leu Thr Ile Thr Gly Ala Gln Ala Asp Asp Glu Ser Asp Tyr
      100      105      110
Tyr Cys Val Leu Ile Cys Arg *
      115      119

```

<210> 721

<211> 1071

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(1071)

<223> Xaa = any amino acid or nothing

<400> 721

```

Met Asn Cys Asp Val Leu Trp Cys Val Leu Leu Leu Val Cys Met Ser
 1          5          10          15
Leu Phe Ser Ala Val Gly His Gly Leu Trp Ile Trp Arg Tyr Gln Glu
 20          25          30
Lys Lys Ser Leu Phe Tyr Val Pro Lys Ser Asp Gly Ser Ser Leu Ser
 35          40          45
Pro Val Thr Ala Ala Val Tyr Ser Phe Leu Thr Met Ile Ile Val Leu
 50          55          60
Gln Val Leu Ile Pro Ile Ser Leu Tyr Val Ser Ile Glu Ile Val Lys
 65          70          75          80
Ala Cys Gln Val Tyr Phe Ile Asn Gln Asp Met Gln Leu Tyr Asp Glu
 85          90          95
Glu Thr Asp Ser Gln Leu Gln Cys Arg Ala Leu Asn Ile Thr Glu Asp
100          105          110
Leu Gly Gln Ile Gln Tyr Ile Phe Ser Asp Lys Thr Gly Thr Leu Thr
115          120          125
Glu Asn Lys Met Val Phe Arg Arg Cys Thr Val Ser Gly Val Glu Tyr
130          135          140
Ser His Asp Ala Asn Ala Gln Arg Leu Ala Arg Tyr Gln Glu Ala Asp
145          150          155          160
Ser Glu Glu Glu Glu Val Val Pro Arg Gly Gly Ser Val Ser Gln Arg
165          170          175
Gly Ser Ile Gly Ser His Gln Ser Val Arg Val Val His Arg Thr Gln
180          185          190
Ser Thr Lys Ser His Arg Arg Thr Gly Ser Arg Ala Glu Ala Lys Arg
195          200          205
Ala Ser Met Leu Ser Lys His Thr Ala Phe Ser Ser Pro Met Glu Lys
210          215          220
Asp Ile Thr Pro Asp Pro Lys Leu Leu Glu Lys Val Ser Glu Cys Asp
225          230          235          240
Lys Ser Leu Ala Val Ala Arg His Gln Glu His Leu Leu Ala His Leu
245          250          255
Ser Pro Glu Leu Ser Asp Val Phe Asp Phe Leu Ile Ala Leu Thr Ile
260          265          270
Cys Asn Thr Val Val Val Thr Ser Pro Asp Gln Pro Arg Thr Lys Val
275          280          285
Arg Val Arg Phe Glu Leu Lys Ser Pro Val Lys Thr Ile Glu Asp Phe
290          295          300
Leu Arg Arg Phe Thr Pro Ser Cys Leu Thr Ser Gly Cys Ser Ser Ile
305          310          315          320
Gly Ser Leu Ala Ala Asn Lys Ser Ser His Lys Leu Gly Ser Ser Phe
325          330          335
Pro Ser Thr Pro Ser Ser Asp Gly Met Leu Leu Arg Leu Glu Glu Arg
340          345          350
Leu Gly Gln Pro Thr Ser Ala Ile Ala Ser Asn Gly Tyr Ser Ser Gln
355          360          365
Ala Asp Asn Trp Ala Ser Glu Leu Ala Gln Glu Glu Ser Glu Arg
370          375          380
Glu Leu Arg Tyr Glu Ala Glu Ser Pro Asp Glu Ala Ala Leu Val Tyr
385          390          395          400
Ala Ala Arg Ala Tyr Asn Cys Val Leu Val Glu Arg Leu His Asp Gln
405          410          415
Val Ser Val Glu Leu Pro His Leu Gly Arg Leu Thr Phe Glu Leu Leu
420          425          430
His Thr Leu Gly Phe Asp Ser Val Arg Lys Arg Met Ser Val Val Ile
435          440          445
Arg His Pro Leu Thr Asp Glu Ile Asn Val Tyr Thr Lys Gly Ala Asp
450          455          460
Ser Val Val Met Asp Leu Leu Gln Pro Cys Ser Ser Val Asp Ala Arg

```


465					470					475				480
Gly	Arg	His	Gln	Lys	Lys	Ile	Arg	Ser	Lys	Thr	Gln	Asn	Tyr	Leu Asn
				485					490					495
Val	Tyr	Ala	Ala	Glu	Gly	Leu	Arg	Thr	Leu	Cys	Ile	Ala	Lys	Arg Val
			500					505					510	
Leu	Ser	Lys	Glu	Glu	Tyr	Ala	Cys	Trp	Leu	Gln	Ser	His	Leu	Glu Ala
		515					520					525		
Glu	Ser	Ser	Leu	Glu	Asn	Ser	Glu	Glu	Leu	Leu	Phe	Gln	Ser	Ala Ile
	530					535					540			
Arg	Leu	Glu	Thr	Asn	Leu	His	Leu	Leu	Gly	Ala	Thr	Gly	Ile	Glu Asp
545				550					555					560
Arg	Leu	Gln	Asp	Gly	Val	Pro	Glu	Thr	Ile	Ser	Lys	Leu	Arg	Gln Ala
			565					570						575
Gly	Leu	Gln	Ile	Trp	Val	Leu	Thr	Gly	Asp	Lys	Gln	Glu	Thr	Ala Val
		580						585					590	
Asn	Ile	Ala	Tyr	Ala	Cys	Lys	Leu	Leu	Asp	His	Asp	Glu	Glu	Val Ile
	595						600					605		
Thr	Leu	Asn	Ala	Thr	Ser	Gln	Glu	Ala	Cys	Ala	Ala	Leu	Leu	Asp Gln
	610					615					620			
Cys	Leu	Cys	Tyr	Val	Gln	Ser	Arg	Gly	Pro	Gln	Arg	Ala	Pro	Glu Lys
625				630						635				640
Thr	Lys	Gly	Lys	Val	Ser	Met	Arg	Phe	Ser	Ser	Leu	Cys	Pro	Pro Ser
			645					650						655
Thr	Ser	Thr	Ala	Ser	Gly	Arg	Arg	Pro	Ser	Leu	Val	Ile	Asp	Gly Arg
		660						665					670	
Ser	Met	Ala	Tyr	Ala	Leu	Glu	Lys	Asn	Leu	Glu	Asp	Lys	Phe	Leu Phe
	675						680				685			
Leu	Ala	Lys	Gln	Cys	Arg	Ser	Val	Leu	Cys	Cys	Arg	Ser	Thr	Pro Leu
	690					695					700			
Gln	Lys	Ser	Met	Val	Val	Lys	Leu	Val	Arg	Ser	Lys	Leu	Lys	Ala Met
705				710						715				720
Thr	Leu	Ala	Ile	Gly	Asp	Gly	Ala	Asn	Asp	Val	Ser	Met	Ile	Gln Val
			725						730					735
Ala	Asp	Val	Gly	Val	Gly	Ile	Ser	Gly	Gln	Glu	Gly	Met	Gln	Ala Val
		740						745					750	
Met	Ala	Ser	Asp	Phe	Ala	Val	Pro	Lys	Phe	Arg	Tyr	Leu	Glu	Arg Leu
	755						760					765		
Leu	Ile	Leu	His	Gly	His	Trp	Cys	Tyr	Ser	Arg	Leu	Ala	Asn	Met Val
	770					775					780			
Leu	Tyr	Phe	Phe	Tyr	Lys	Asn	Thr	Met	Phe	Val	Gly	Leu	Leu	Phe Trp
785				790					795					800
Phe	Gln	Phe	Phe	Cys	Gly	Phe	Ser	Ala	Ser	Thr	Met	Ile	Asp	Gln Trp
			805						810					815
Tyr	Leu	Ile	Phe	Phe	Asn	Leu	Leu	Phe	Ser	Ser	Leu	Pro	Pro	Leu Val
		820						825					830	
Thr	Gly	Val	Leu	Asp	Arg	Asp	Val	Pro	Ala	Asn	Val	Leu	Leu	Thr Asn
	835						840					845		
Pro	Gln	Leu	Tyr	Lys	Ser	Gly	Gln	Asn	Met	Glu	Glu	Tyr	Arg	Pro Arg
	850					855					860			
Thr	Phe	Trp	Phe	Asn	Met	Ala	Asp	Ala	Ala	Phe	Gln	Ser	Leu	Val Cys
865				870						875				880
Phe	Ser	Ile	Pro	Tyr	Leu	Ala	Tyr	Tyr	Asp	Ser	Asn	Val	Asp	Leu Phe
			885						890					895
Thr	Trp	Gly	Thr	Pro	Ile	Val	Thr	Ile	Ala	Leu	Leu	Thr	Phe	Leu Leu
		900						905					910	
His	Leu	Gly	Ile	Glu	Thr	Lys	Thr	Trp	Thr	Trp	Leu	Asn	Trp	Ile Thr
		915					920					925		
Cys	Gly	Phe	Ser	Val	Leu	Leu	Phe	Phe	Thr	Val	Ala	Leu	Ile	Tyr Asn
	930						935				940			
Ala	Ser	Cys	Ala	Thr	Cys	Tyr	Pro	Pro	Ser	Asn	Pro	Tyr	Trp	Thr Met
945				950						955				960
Gln	Ala	Leu	Leu	Gly	Asp	Pro	Val	Phe	Tyr	Leu	Thr	Cys	Leu	Met Thr
			965						970					975
Pro	Val	Ala	Ala	Leu	Leu	Pro	Arg	Leu	Phe	Phe	Arg	Ser	Leu	Gln Gly

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980 985 990
 Arg Val Phe Pro Thr Gln Leu Gln Leu Ala Arg Gln Leu Thr Arg Lys
 995 1000 1005
 Ser Pro Arg Arg Cys Ser Ala Pro Lys Glu Thr Phe Ala Gln Gly Arg
 1010 1015 1020
 Pro Xaa Glu Gly Leu Gly Asn Arg Gly Thr His Gln Gly Gly Gln Ser
 1025 1030 1035 1040
 Arg Pro Leu Cys Pro Cys Pro Ser Leu Leu Gly Thr His Ser Ser Arg
 1045 1050 1055
 Ser Ala Pro Trp Arg Pro Ala Gly Ser Pro Ala Gln Trp Thr *
 1060 1065 1070

<210> 722

<211> 648

<212> PRT

<213> Homo sapiens

<400> 722

Met Leu Trp Val Thr Gly Pro Val Leu Ala Val Ile Leu Ile Ile Leu
 1 5 10 15
 Ile Val Ile Ala Ile Leu Leu Phe Lys Arg Lys Arg Thr His Ser Pro
 20 25 30
 Ser Ser Lys Asp Glu Gln Ser Ile Gly Leu Lys Asp Ser Leu Leu Ala
 35 40 45
 His Ser Ser Asp Pro Val Glu Met Arg Arg Leu Asn Tyr Gln Thr Pro
 50 55 60
 Gly Met Arg Asp His Pro Ile Pro Ile Thr Asp Leu Ala Asp Asn
 65 70 75 80
 Ile Glu Arg Leu Lys Ala Asn Asp Gly Leu Lys Phe Ser Gln Glu Tyr
 85 90 95
 Glu Ser Ile Asp Pro Gly Gln Gln Phe Thr Trp Glu Asn Ser Asn Leu
 100 105 110
 Glu Val Asn Lys Pro Lys Asn Arg Tyr Ala Asn Val Ile Ala Tyr Asp
 115 120 125
 His Ser Arg Val Ile Leu Thr Ser Ile Asp Gly Val Pro Gly Ser Asp
 130 135 140
 Tyr Ile Asn Ala Asn Tyr Ile Asp Gly Tyr Arg Lys Gln Asn Ala Tyr
 145 150 155 160
 Ile Ala Thr Gln Gly Pro Leu Pro Glu Thr Met Gly Asp Phe Trp Arg
 165 170 175
 Met Val Trp Glu Gln Arg Thr Ala Thr Val Val Met Met Thr Arg Leu
 180 185 190
 Glu Glu Lys Ser Arg Val Lys Cys Asp Gln Tyr Trp Pro Ala Arg Gly
 195 200 205
 Thr Glu Thr Cys Gly Leu Ile Gln Val Thr Leu Leu Asp Thr Val Glu
 210 215 220
 Leu Ala Thr Tyr Thr Val Arg Thr Phe Ala Leu His Lys Ser Gly Ser
 225 230 235 240
 Ser Glu Lys Arg Glu Leu Arg Gln Phe Gln Phe Met Ala Trp Pro Asp
 245 250 255
 His Gly Val Pro Glu Tyr Pro Thr Pro Ile Leu Ala Phe Leu Arg Arg
 260 265 270
 Val Lys Ala Cys Asn Pro Leu Asp Ala Gly Pro Met Val Val His Cys
 275 280 285
 Ser Ala Gly Val Gly Arg Thr Gly Cys Phe Ile Val Ile Asp Ala Met
 290 295 300
 Leu Glu Arg Met Lys His Glu Lys Thr Val Asp Ile Tyr Gly His Val
 305 310 315 320
 Thr Cys Met Arg Ser Gln Arg Asn Tyr Met Val Gln Thr Glu Asp Gln
 325 330 335
 Tyr Val Phe Ile His Glu Ala Leu Leu Glu Ala Ala Thr Cys Gly His

```

      340      345      350
Thr Glu Val Pro Ala Arg Asn Leu Tyr Ala His Ile Gln Lys Leu Gly
      355      360      365
Gln Val Pro Pro Gly Glu Ser Val Thr Ala Met Glu Leu Glu Phe Lys
      370      375      380
Leu Leu Ala Ser Ser Lys Ala His Thr Ser Arg Phe Ile Ser Ala Asn
385      390      395      400
Leu Pro Cys Asn Lys Phe Lys Asn Arg Leu Val Asn Ile Met Pro Tyr
      405      410      415
Glu Leu Thr Arg Val Cys Leu Gln Pro Ile Arg Gly Val Glu Gly Ser
      420      425      430
Asp Tyr Ile Asn Ala Ser Phe Leu Asp Gly Tyr Arg Gln Gln Lys Ala
      435      440      445
Tyr Ile Ala Thr Gln Gly Pro Leu Ala Glu Ser Thr Glu Asp Phe Trp
      450      455      460
Arg Met Leu Trp Glu His Asn Ser Thr Ile Ile Val Met Leu Thr Lys
465      470      475      480
Leu Arg Glu Met Gly Arg Glu Lys Cys His Gln Tyr Trp Pro Ala Glu
      485      490      495
Arg Ser Ala Arg Tyr Gln Tyr Phe Val Val Asp Pro Met Ala Glu Tyr
      500      505      510
Asn Met Pro Gln Tyr Ile Leu Arg Glu Phe Lys Val Thr Asp Ala Arg
      515      520      525
Asp Gly Gln Ser Arg Thr Ile Arg Gln Phe Gln Phe Thr Asp Trp Pro
      530      535      540
Glu Gln Gly Val Pro Lys Thr Gly Glu Gly Phe Ile Asp Phe Ile Gly
545      550      555      560
Gln Val His Lys Thr Lys Glu Gln Phe Gly Gln Asp Gly Pro Ile Thr
      565      570      575
Val His Cys Ser Ala Gly Val Gly Arg Thr Gly Val Phe Ile Thr Leu
      580      585      590
Ser Ile Val Leu Glu Arg Met Arg Tyr Glu Gly Val Val Asp Met Phe
      595      600      605
Gln Thr Val Lys Thr Leu Arg Thr Gln Arg Pro Ala Met Val Gln Thr
      610      615      620
Glu Asp Gln Tyr Gln Leu Cys Tyr Arg Ala Ala Leu Glu Tyr Leu Gly
625      630      635      640
Ser Phe Asp His Tyr Ala Thr *
      645      647

```

<210> 723

<211> 94

<212> PRT

<213> Homo sapiens

<400> 723

```

Met Ile Trp Ile Tyr Phe Ala Phe Ile Phe Gln Arg Leu His Leu Ile
 1      5      10      15
Pro Gly Lys Ser Ser Ala Arg Gln Val Ser Gly Phe Ser Leu Leu Ser
      20      25      30
Phe Asn Pro Ser Asn Thr Ile Phe Val Lys Leu Asp Trp Trp Cys Phe
      35      40      45
Ile Gln Leu Ile Tyr Ser Ala Tyr Leu Phe Glu Lys Arg Leu Leu Glu
      50      55      60
Ile Asp Asp Val Phe Val Pro Val Ile Leu Lys Val Val Gly Ala Arg
      65      70      75      80
Ile Glu Phe His Ser Gly Ile Gly Phe Gly Ser Gly Leu *
      85      90      93

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<210> 724

<211> 46

<212> PRT

<213> Homo sapiens

<400> 724

```
Met Leu Ile Ala Val Ile Ala Cys Ile Cys Tyr Leu Ser Leu Leu His
 1           5           10           15
Ser Tyr Asp Ile Leu Phe Gly His Phe Ser Val Leu Ser Gln Gly Leu
          20           25           30
Asp Lys His Cys Leu Thr Leu Phe Leu Ser Leu Gly Gly *
```

<210> 725

<211> 120

<212> PRT

<213> Homo sapiens

<400> 725

```
Met Val Ile Ile Asn Cys Ser Pro Arg Phe Trp Phe Leu Phe Pro Phe
 1           5           10           15
Thr Ile Gln His Thr Cys Lys Cys Pro Leu Gly Val Arg Tyr His Thr
          20           25           30
Arg His Leu Glu Gln Ile Ala Ala Asn Lys Lys His Cys Pro Tyr Pro
          35           40           45
Tyr Glu Val His Tyr Asn Ser Ser Tyr Trp Arg Ala Gly Ile Ile Leu
          50           55           60
His Thr Leu His Ala Tyr Leu Thr Ser Tyr Pro His Tyr Tyr Ser Phe
          65           70           75           80
Phe Phe Phe Phe Phe Gly Lys Gly Val Pro Phe Cys Pro Gln Gly Gly
          85           90           95
Gly Ala Gly Lys Gly Ser Gly Leu Met Gly Ser His Arg Gly Thr Lys
          100          105          110
Pro Lys Ser Phe Leu Lys Lys Lys
          115          120
```

<210> 726

<211> 48

<212> PRT

<213> Homo sapiens

<400> 726

```
Met Glu Arg His Gly Phe Phe Leu Asp Val Cys Leu Ile Leu Gly Leu
 1           5           10           15
Ile Pro Leu Ser Ile Lys Tyr Ser Leu Gln Lys Arg Gly Lys Asn Ser
          20           25           30
Ala Ala Asp Asn Ala Gly Trp Ser Asp Leu Ser Leu Gly Gln Asn *
```

<210> 727

<211> 56

<212> PRT

<213> Homo sapiens

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<400> 727
 Met Tyr Met Asn Thr Cys Leu Tyr Leu His Val Tyr Val Leu Thr Cys
 1 5 10 15
 Ser Gly Cys Asn Val Asp Met Cys Ser Arg Leu Phe Leu Ser Thr Lys
 20 25 30
 Leu Lys Ala His Val Gln Ile Val Leu Tyr Trp Val Phe Leu Trp Ser
 35 40 45
 Arg Gly Asn Asn Phe Leu Thr *
 50 55

<210> 728
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 728
 Met Val Ile Leu Asp Val Leu Glu Leu Tyr His Met Trp Phe Leu Gly
 1 5 10 15
 Ile Leu Tyr Asp Ala Ile Phe Tyr Cys Phe Val His Ala Ile Asn Ala
 20 25 30
 Asp Lys Phe Phe Gly Leu Lys Leu Thr Lys Ser Ala Thr Val Ser Gln
 35 40 45
 Asn Ser Gln *
 50 51

<210> 729
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 729
 Met Tyr Asp Phe Leu Leu Leu Ser Phe Ile Phe Ile Val Ala Ser
 1 5 10 15
 Tyr Trp Ser Phe Leu Ser Thr Ile Phe Leu Asp Val Val Cys Ser Ile
 20 25 30
 Leu His Cys Pro Val Lys Pro Gln Thr Leu Leu Lys Ser Cys Leu His
 35 40 45
 Val Asp Cys Lys Ser Thr *
 50 54

<210> 730
 <211> 167
 <212> PRT
 <213> Homo sapiens

<400> 730
 Met Val Gly Leu Gly Gly Met Ser Gln Leu Leu Leu Ala Ser Leu Leu
 1 5 10 15
 Pro Pro Val Pro Gln Gly Ser Pro Thr Arg Arg Lys Leu Pro Ala Ser
 20 25 30
 Leu Leu Val Ser Thr Ala Leu Ile Ser Pro Val Cys Val Arg Gly Trp
 35 40 45
 Met Trp Gln Asn Leu Gln Asn Arg Ile His Gly Ser His Thr Ser Ala
 50 55 60
 Arg Arg Val Pro Ser Leu Pro Gly Ala Gly Gln Val Gly Val Arg Trp

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65					70					75				80	
Glu	Ala	Gly	Pro	Ala	Cys	Arg	Thr	Gln	Pro	Ser	Pro	Gln	Asn	Leu	Ala
				85					90					95	
Pro	Arg	Pro	His	Pro	Ser	Ala	Ala	Gln	Leu	Ile	Glu	Asn	Ala	Ala	Leu
			100					105					110		
Arg	Ser	Ala	Met	Ser	Gly	Glu	Arg	Leu	Phe	Pro	Glu	Gly	Gln	Glu	His
		115					120					125			
Leu	Gly	Pro	Leu	Val	Ala	Pro	Arg	Val	Pro	Met	Gly	Gly	Ala	Leu	Cys
	130					135					140				
Pro	Pro	Leu	Pro	Ser	Leu	Ser	Cys	Ala	Ile	Cys	Lys	Val	Gly	Ala	Ala
145				150						155					160
Arg	Glu	Ala	Gly	Gly	Arg	*									
				165	166										

<210> 731
 <211> 65
 <212> PRT
 <213> Homo sapiens

<400> 731															
Met	Lys	Pro	Tyr	Cys	Met	Tyr	Pro	Phe	Leu	Ser	Gly	Leu	Leu	Ser	Ser
1				5					10					15	
Leu	Leu	Phe	Trp	Val	Glu	Ser	Leu	Met	Leu	Leu	Cys	Val	Gln	Met	Val
			20					25					30		
Leu	Phe	Leu	Met	Leu	Cys	Val	Leu	Asp	Tyr	Arg	Ile	Tyr	Cys	Ile	Lys
		35					40					45			
Ile	Tyr	Val	Ser	Ile	Ile	Leu	Leu	Met	Ser	Ile	Trp	Ile	Ile	Ser	Ile
	50					55					60				64
*															

<210> 732
 <211> 65
 <212> PRT
 <213> Homo sapiens

<400> 732															
Met	Cys	Tyr	Phe	Tyr	Asn	Thr	Ile	Ile	Leu	Thr	Leu	Gln	Gly	Ser	Leu
1				5					10					15	
Met	Phe	Leu	Leu	Phe	Ser	Val	Val	Thr	Leu	Tyr	Leu	Phe	Ser	His	Ser
			20					25					30		
His	Pro	Thr	Pro	Ile	Ser	Ile	Phe	Ser	Asp	Val	Phe	Asn	Met	Tyr	Pro
		35					40					45			
Trp	Ile	Tyr	Met	Tyr	Ser	Tyr	Met	Val	Phe	Ser	Val	Asn	Leu	Tyr	Lys
	50					55					60				64
*															

<210> 733
 <211> 91
 <212> PRT
 <213> Homo sapiens

<400> 733															
Met	Ala	Ala	Ala	Pro	Gly	Leu	Leu	Val	Trp	Leu	Leu	Val	Leu	Arg	Leu

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      1           5           10           15
Pro Trp Arg Val Pro Gly Gln Leu Asp Pro Ser Thr Gly Arg Arg Phe
      20           25           30
Ser Glu His Lys Leu Cys Ala Asp Asp Glu Cys Ser Met Leu Met Tyr
      35           40           45
Arg Gly Glu Ala Leu Glu Asp Phe Thr Gly Pro Asp Cys Arg Phe Val
      50           55           60
Asn Phe Lys Lys Gly Asp Pro Val Tyr Val Tyr Tyr Lys Leu Ala Arg
      65           70           75           80
Gly Trp Pro Glu Val Trp Ala Gly Ser Lys *
      85           90

```

<210> 734
 <211> 65
 <212> PRT
 <213> Homo sapiens

```

      1           5           10           15
Met Pro Gly Tyr Val Pro Leu Leu Leu Leu Leu Leu Leu Arg Cys
      20           25           30
Ser Gln Arg Gly Gly Val Asn Phe Gly Glu Lys Asp Ala Lys Val
      35           40           45
Pro Gly Thr Trp Arg Asp Gly Val Arg Val Pro Gly Glu Gly Ala Ser
      50           55           60           64
Trp Asp Ser Asp Arg Ala Ser Pro Glu Arg Arg Tyr Gly Ile Gly Glu
      *

```

<210> 735
 <211> 71
 <212> PRT
 <213> Homo sapiens

```

      1           5           10           15
Met Lys Phe Leu Leu Met Ser Leu Pro Tyr Arg His Leu Phe Cys Ile
      20           25           30
Thr Gln Ala Ile Leu Ser Glu Ile Ala Glu Gly Ile Arg Asn Asp Pro
      35           40           45
Phe Lys Phe Tyr Leu Tyr Ser Val Leu Ala Leu Phe Leu His Tyr Tyr
      50           55           60
Met Tyr Val Phe Val Ser Arg Phe Ser Ile Tyr Tyr Leu Lys Leu Leu
      65
Arg Ile Phe Lys Phe Ser *
      70

```

<210> 736
 <211> 75
 <212> PRT
 <213> Homo sapiens

```

      1           5           10           15
Met Arg Gln Ile Ala Val Phe Gln Arg Phe Met Phe Pro Phe Leu Leu
      20           25           30
Pro Trp Leu Ser Cys Ile Phe Ser Ser Ser Gln Asn Ser Ile Tyr Tyr

```

```

      20      25      30
Val Ser Thr Phe Ile Lys Cys Leu Ala Leu Lys Ser Ile Ile Lys Arg
      35      40      45
Gln Arg Ser Glu Ile Asn Ser Gly Phe Leu Ala Ile Tyr His Ala Leu
      50      55      60
Arg Asn Gln Val Thr Arg Cys Gly Gly Leu *
      65      70      74

```

```

<210> 737
<211> 71
<212> PRT
<213> Homo sapiens

```

```

      <400> 737
Met Pro Arg Arg Thr Arg Gly Gly Leu Trp Leu Cys Asn Ala His Lys
 1      5      10      15
Ser Cys Gln Lys Tyr Leu Ser Ser Leu Lys Leu Ser Thr Leu Leu Ser
      20      25      30
Pro Leu Leu Val Leu Pro Phe Tyr Thr Pro Ser Leu Lys Gly Trp Gly
      35      40      45
Ile Phe Val Leu Arg Phe Tyr Phe Met Val Ile Ile Ala Asp Cys Asn
      50      55      60
Leu Phe Lys Ile Ile Ile *
      65      70

```

```

<210> 738
<211> 53
<212> PRT
<213> Homo sapiens

```

```

      <400> 738
Met Phe Thr His Trp Leu Gly Pro Pro Val Tyr Ile Lys Gln Phe Ile
 1      5      10      15
Val Met Ile Val Ser Ile Leu Thr Leu Phe Pro Val Leu Gln Gly Met
      20      25      30
Leu Arg Asn Phe Leu Tyr Leu Asn Ile Met Phe Val Val Ala Leu Leu
      35      40      45
Lys Ala Ile Leu *
      50      52

```

```

<210> 739
<211> 71
<212> PRT
<213> Homo sapiens

```

```

      <400> 739
Met Glu Arg Gly Ala Gly Ala Lys Leu Leu Pro Leu Leu Leu Leu
 1      5      10      15
Arg Ala Thr Gly Phe Thr Cys Ala Gln Ala Asp Gly Arg Asn Gly Tyr
      20      25      30
Thr Ala Val Ile Glu Val Thr Ser Gly Gly Pro Trp Gly Asp Trp Ala
      35      40      45
Trp Pro Glu Met Cys Pro Asp Gly Phe Phe Ala Ser Gly Phe Ser Leu
      50      55      60
Lys Val Gly Ala Gln Ala *

```


<210> 740
<211> 104
<212> PRT
<213> Homo sapiens

<400> 740
Met Thr Gln Val Glu Arg Val Ile Val Phe Leu Thr Leu Ser Thr Leu
1 5 10 15
Ser Leu Ala Lys Thr Thr Gln Pro Ile Phe Met Asp Ser Tyr Glu Gly
20 25 30
Gln Glu Val Asn Ile Thr Cys Ser His Asn Asn Ile Val Thr Asn Asp
35 40 45
Tyr Ile Thr Trp Tyr Gln Gln Phe Pro Ser Gln Gly Pro Arg Phe Ile
50 55 60
Ile Gln Gly Tyr Gln Lys Lys Val Thr Asn Glu Val Ala Phe Leu Cys
65 70 75 80
Ile Pro Ala Asp Arg Lys Ser Ile Thr Leu Asn Leu Pro Arg Val Ser
85 90 95
Leu Glu Asp Thr Gly Gly Lys *
100 103

<210> 741
<211> 93
<212> PRT
<213> Homo sapiens

<400> 741
Met Thr Lys Leu Ala Gln Trp Leu Trp Gly Leu Ala Ile Leu Gly Ser
1 5 10 15
Thr Trp Val Ala Leu Thr Thr Gly Ala Leu Gly Leu Glu Leu Pro Leu
20 25 30
Ser Cys Gln Glu Val Leu Trp Pro Leu Pro Ala Tyr Leu Leu Val Ser
35 40 45
Ala Gly Cys Tyr Ala Leu Gly Thr Val Gly Tyr Arg Val Ala Thr Phe
50 55 60
His Asp Cys Glu Asp Ala Ala Arg Glu Leu Gln Ser Gln Ile Gln Glu
65 70 75 80
Ala Arg Ala Asp Leu Ala Arg Arg Gly Leu Arg Phe *
85 90 92

<210> 742
<211> 46
<212> PRT
<213> Homo sapiens

<400> 742
Met Ser Val Gly Leu Ala Gly Ala Val Gly Arg Arg Cys His Leu Ala
1 5 10 15
Leu Ala Val Leu His Asp Pro Leu Cys His His Gly Ser Leu Ala Thr
20 25 30
Ile Cys Lys Gln Pro Glu Val Cys Leu Phe Thr Ile Val *
35 40 45

<210> 743
 <211> 83
 <212> PRT
 <213> Homo sapiens

<400> 743
 Met Pro Phe Leu Leu Asn Gln Cys Gly Ser Leu Leu Tyr Tyr Leu Thr
 1 5 10 15
 Leu Ala Ser Thr Asp Leu Thr Leu Ala Val Pro Ile Cys Asn Ser Leu
 20 25 30
 Ala Ile Ile Phe Thr Leu Ile Val Gly Lys Ala Leu Gly Glu Asp Ile
 35 40 45
 Gly Gly Lys Arg Ala Val Ala Gly Met Val Leu Thr Val Ile Gly Ile
 50 55 60
 Ser Leu Cys Ile Thr Ser Ser Val Ser Lys Thr Gln Gly Gln Gln Ser
 65 70 75 80
 Thr Leu *
 82

<210> 744
 <211> 83
 <212> PRT
 <213> Homo sapiens

<400> 744
 Met Pro Phe Leu Leu Asn Gln Cys Gly Ser Leu Leu Tyr Tyr Leu Thr
 1 5 10 15
 Leu Ala Ser Thr Asp Leu Thr Leu Ala Val Pro Ile Cys Asn Ser Leu
 20 25 30
 Ala Ile Ile Phe Thr Leu Ile Val Gly Lys Ala Leu Gly Glu Asp Ile
 35 40 45
 Gly Gly Lys Arg Ala Val Ala Gly Met Val Leu Thr Val Ile Gly Ile
 50 55 60
 Ser Leu Cys Ile Thr Ser Ser Val Ser Lys Thr Gln Gly Gln Gln Ser
 65 70 75 80
 Thr Leu *
 82

<210> 745
 <211> 232
 <212> PRT
 <213> Homo sapiens

<400> 745
 Met Ala Leu Ile Tyr Val Met Leu Leu Leu Leu Gly Ala Phe Leu Gly
 1 5 10 15
 Ala Trp Pro Ala Leu Cys Gly Arg Tyr Lys Arg Trp Arg Lys His Gly
 20 25 30
 Val Phe Val Leu Leu Thr Thr Ala Thr Ser Val Ala Ile Trp Val Val
 35 40 45
 Trp Ile Val Met Tyr Thr Tyr Gly Asn Lys Gln His Asn Ser Pro Thr
 50 55 60
 Trp Asp Asp Pro Thr Leu Ala Ile Ala Leu Ala Asn Ala Trp Ala
 65 70 75 80
 Phe Val Leu Phe Tyr Val Ile Pro Glu Val Ser Gln Val Thr Lys Ser

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      85      90      95
Ser Pro Glu Gln Ser Tyr Gln Gly Asp Met Tyr Pro Thr Arg Gly Val
      100      105      110
Gly Tyr Glu Thr Ile Leu Lys Glu Gln Lys Gly Gln Ser Met Phe Val
      115      120      125
Glu Asn Lys Ala Phe Ser Met Asp Glu Pro Val Ala Ala Lys Arg Pro
      130      135      140
Val Ser Pro Tyr Ser Gly Tyr Asn Gly Gln Leu Leu Thr Ser Val Tyr
      145      150      155      160
Gln Pro Thr Glu Met Ala Leu Met His Lys Val Pro Ser Glu Gly Ala
      165      170      175
Tyr Asp Ile Ile Leu Pro Arg Ala Thr Ala Asn Ser Gln Val Met Gly
      180      185      190
Ser Ala Asn Ser Thr Leu Arg Ala Glu Asp Met Tyr Ser Ala Gln Ser
      195      200      205
His Gln Ala Ala Thr Pro Pro Lys Asp Gly Lys Asn Ser Gln Val Phe
      210      215      220
Arg Asn Pro Tyr Val Trp Asp *
      225      230 231

```

<210> 746
 <211> 119
 <212> PRT
 <213> Homo sapiens

```

      <400> 746
Met Val Lys Thr Asp Ala His Leu Lys Asn Pro Pro Phe Ala Pro Phe
  1      5      10      15
Arg Val Tyr Thr Leu Thr Leu Ser Leu Leu Lys Leu Ser His Tyr
      20      25      30
Ser Cys Leu Trp Val Lys Lys Asp Phe Lys Asp Ser Ser Phe Tyr Asn
      35      40      45
Ser Asn Asn Asn Ser Asn Ser Asn His Cys Lys Ser Leu Leu Ser Thr
      50      55      60
His Tyr Met Pro Gly Ala Val Ile Ser Asn Leu Cys Leu Ile Ser Cys
      65      70      75      80
Lys Val Ser Ser Ser Pro Ile Lys Gln Thr His Gly Ile Ser Met Leu
      85      90      95
Gln Met Lys Arg Leu Lys His Thr Leu Ala Arg Leu Ala Pro Gly Thr
      100      105      110
His Gly Gly Ser Gln Asn *
      115      118

```

<210> 747
 <211> 300
 <212> PRT
 <213> Homo sapiens

```

      <400> 747
Met Gly Thr Lys Ala Gln Val Glu Arg Lys Leu Leu Cys Leu Phe Ile
  1      5      10      15
Leu Ala Ile Leu Leu Cys Ser Leu Ala Leu Gly Ser Val Thr Val His
      20      25      30
Ser Ser Glu Pro Glu Val Arg Ile Pro Glu Asn Asn Pro Val Lys Leu
      35      40      45
Ser Cys Ala Tyr Ser Gly Phe Ser Ser Pro Arg Val Glu Trp Lys Phe
      50      55      60
Asp Gln Gly Asp Thr Thr Arg Leu Val Cys Tyr Asn Asn Lys Ile Thr

```

65	70	75	80
Ala Ser Tyr Glu Asp Arg Val Thr Phe Leu Pro Thr Gly Ile Thr Phe			
	85	90	95
Lys Ser Val Thr Arg Glu Asp Thr Gly Thr Tyr Thr Cys Met Val Ser			
	100	105	110
Glu Glu Gly Gly Asn Ser Tyr Gly Glu Val Lys Val Lys Leu Ile Val			
	115	120	125
Leu Val Pro Pro Ser Lys Pro Thr Val Asn Ile Pro Ser Ser Ala Thr			
	130	135	140
Ile Gly Asn Arg Ala Val Leu Thr Cys Ser Glu Gln Asp Gly Ser Pro			
	145	150	155
Pro Ser Glu Tyr Thr Trp Phe Lys Asp Gly Ile Val Met Pro Thr Asn			
	165	170	175
Pro Lys Ser Thr Arg Ala Phe Ser Asn Ser Ser Tyr Val Leu Asn Pro			
	180	185	190
Thr Thr Gly Glu Leu Val Phe Asp Pro Leu Ser Ala Ser Asp Thr Gly			
	195	200	205
Glu Tyr Ser Cys Glu Ala Arg Asn Gly Tyr Gly Thr Pro Met Thr Ser			
	210	215	220
Asn Ala Val Arg Met Glu Ala Val Glu Arg Asn Val Gly Val Ile Val			
	225	230	235
Ala Ala Val Leu Val Thr Leu Ile Leu Leu Gly Ile Leu Val Phe Gly			
	245	250	255
Ile Trp Phe Ala Tyr Ser Arg Gly His Phe Asp Arg Thr Lys Lys Gly			
	260	265	270
Thr Ser Ser Lys Lys Val Ile Tyr Ser Gln Pro Ser Ala Arg Ser Glu			
	275	280	285
Gly Glu Phe Lys Gln Thr Ser Ser Phe Leu Val *			
	290	295	299

<210> 748

<211> 300

<212> PRT

<213> Homo sapiens

<400> 748

Met Gly Thr Lys Ala Gln Val Glu Arg Lys Leu Leu Cys Leu Phe Ile			
1	5	10	15
Leu Ala Ile Leu Leu Cys Ser Leu Ala Leu Gly Ser Val Thr Val His			
	20	25	30
Ser Ser Glu Pro Glu Val Arg Ile Pro Glu Asn Asn Pro Val Lys Leu			
	35	40	45
Ser Cys Ala Tyr Ser Gly Phe Ser Ser Pro Arg Val Glu Trp Lys Phe			
	50	55	60
Asp Gln Gly Asp Thr Thr Arg Leu Val Cys Tyr Asn Asn Lys Ile Thr			
	65	70	75
Ala Ser Tyr Glu Asp Arg Val Thr Phe Leu Pro Thr Gly Ile Thr Phe			
	85	90	95
Lys Ser Val Thr Arg Glu Asp Thr Gly Thr Tyr Thr Cys Met Val Ser			
	100	105	110
Glu Glu Gly Gly Asn Ser Tyr Gly Glu Val Lys Val Lys Leu Ile Val			
	115	120	125
Leu Val Pro Pro Ser Lys Pro Thr Val Asn Ile Pro Ser Ser Ala Thr			
	130	135	140
Ile Gly Asn Arg Ala Val Leu Thr Cys Ser Glu Gln Asp Gly Ser Pro			
	145	150	155
Pro Ser Glu Tyr Thr Trp Phe Lys Asp Gly Ile Val Met Pro Thr Asn			
	165	170	175
Pro Lys Ser Thr Arg Ala Phe Ser Asn Ser Ser Tyr Val Leu Asn Pro			
	180	185	190
Thr Thr Gly Glu Leu Val Phe Asp Pro Leu Ser Ala Ser Asp Thr Gly			

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      195      200      205
Glu Tyr Ser Cys Glu Ala Arg Asn Gly Tyr Gly Thr Pro Met Thr Ser
  210      215      220
Asn Ala Val Arg Met Glu Ala Val Glu Arg Asn Val Gly Val Ile Val
  225      230      235      240
Ala Ala Val Leu Val Thr Leu Ile Leu Leu Gly Ile Leu Val Phe Gly
      245      250      255
Ile Trp Phe Ala Tyr Ser Arg Gly His Phe Asp Arg Thr Lys Lys Gly
      260      265      270
Thr Ser Ser Lys Lys Val Ile Tyr Ser Gln Pro Ser Ala Arg Ser Glu
      275      280      285
Gly Glu Phe Lys Gln Thr Ser Ser Phe Leu Val *
  290      295      299

```

<210> 749

<211> 98

<212> PRT

<213> Homo sapiens

<400> 749

```

Met Pro Ser Ser Phe Phe Leu Leu Leu Arg Phe Phe Leu Arg Ile Asp
  1      5      10      15
Gly Val Leu Ile Arg Met Asn Asp Thr Arg Leu Tyr His Glu Ala Asp
      20      25      30
Lys Thr Tyr Met Leu Arg Glu Tyr Thr Ser Arg Glu Ser Lys Ile Ser
      35      40      45
Ser Leu Met His Val Pro Pro Ser Leu Phe Thr Glu Pro Asn Glu Ile
      50      55      60
Ser Gln Tyr Leu Pro Ile Lys Glu Ala Val Cys Glu Lys Leu Ile Phe
      65      70      75      80
Pro Glu Arg Ile Asp Pro Asn Pro Ala Asp Ser Gln Lys Ser Thr Gln
      85      90      95
Val Glu
  98

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<210> 750

<211> 107

<212> PRT

<213> Homo sapiens

<400> 750

```

Met Tyr Thr Arg Glu Leu Leu Ala Trp Ile Gln Gly Leu Tyr Thr Trp
  1      5      10      15
Glu Leu Leu Ala Trp Ile Gln His Leu Asn Thr Trp Glu Leu Leu Pro
      20      25      30
Trp Ile Arg Arg Leu Asn Ser Trp Ile Leu Leu Val Cys Pro Lys Leu
      35      40      45
Leu His Leu Trp Val Phe Gly Lys Thr Met Glu Ile Phe Val Leu Val
      50      55      60
Lys Asp Met Met Pro Phe Leu Tyr Lys Lys Glu Leu Cys Leu Val Pro
      65      70      75      80
Glu Val Ile Ser Leu Leu Ile Phe Ser His Leu Asp Thr Ser Lys Glu
      85      90      95
Leu Ser Ile Tyr Gly Leu Thr Gln Leu Ile *
      100      105 106

```

<210> 751
 <211> 107
 <212> PRT
 <213> Homo sapiens

<400> 751
 Met Tyr Thr Arg Glu Leu Leu Ala Trp Ile Gln Gly Leu Tyr Thr Trp
 1 5 10 15
 Glu Leu Leu Ala Trp Ile Gln His Leu Asn Thr Trp Glu Leu Leu Pro
 20 25 30
 Trp Ile Arg Arg Leu Asn Ser Trp Ile Leu Leu Val Cys Pro Lys Leu
 35 40 45
 Leu His Leu Trp Val Phe Gly Lys Thr Met Glu Ile Phe Val Leu Val
 50 55 60
 Lys Asp Met Met Pro Phe Leu Tyr Lys Lys Glu Leu Cys Leu Val Pro
 65 70 75 80
 Glu Val Ile Ser Leu Leu Ile Phe Ser His Leu Asp Thr Ser Lys Glu
 85 90 95
 Leu Ser Ile Tyr Gly Leu Thr Gln Leu Ile *
 100 105 106

<210> 752
 <211> 302
 <212> PRT
 <213> Homo sapiens

<400> 752
 Met Phe Ser His Leu Pro Phe Asp Cys Val Leu Leu Leu Leu Leu Leu
 1 5 10 15
 Leu Leu Thr Arg Ser Ser Glu Val Glu Tyr Arg Ala Glu Val Gly Gln
 20 25 30
 Asn Ala Tyr Leu Pro Cys Phe Tyr Thr Pro Ala Ala Pro Gly Asn Leu
 35 40 45
 Val Pro Val Cys Trp Gly Lys Gly Ala Cys Pro Val Phe Glu Cys Gly
 50 55 60
 Asn Val Val Leu Arg Thr Asp Glu Arg Asp Val Asn Tyr Trp Thr Ser
 65 70 75 80
 Arg Tyr Trp Leu Asn Gly Asp Phe Arg Lys Gly Asp Val Ser Leu Thr
 85 90 95
 Ile Glu Asn Val Thr Leu Ala Asp Ser Gly Ile Tyr Cys Cys Arg Ile
 100 105 110
 Gln Ile Pro Gly Ile Met Asn Asp Glu Lys Phe Asn Leu Lys Leu Val
 115 120 125
 Ile Lys Pro Ala Lys Val Thr Pro Ala Pro Thr Leu Gln Arg Asp Phe
 130 135 140
 Thr Ala Ala Phe Pro Arg Met Leu Thr Thr Arg Gly His Gly Pro Ala
 145 150 155 160
 Glu Thr Gln Thr Leu Gly Ser Leu Pro Asp Ile Asn Leu Thr Gln Ile
 165 170 175
 Ser Thr Leu Ala Asn Glu Leu Arg Asp Ser Arg Leu Ala Asn Asp Leu
 180 185 190
 Arg Asp Ser Gly Ala Thr Ile Arg Ile Gly Ile Tyr Ile Gly Ala Gly
 195 200 205
 Ile Cys Ala Gly Leu Ala Leu Ala Leu Ile Phe Gly Ala Leu Ile Phe
 210 215 220
 Lys Trp Tyr Ser His Ser Lys Glu Lys Ile Gln Asn Leu Ser Leu Ile
 225 230 235 240
 Ser Leu Ala Asn Leu Pro Pro Ser Gly Leu Ala Asn Ala Val Ala Glu
 245 250 255
 Gly Ile Arg Ser Glu Glu Asn Ile Tyr Thr Ile Glu Glu Asn Val Tyr

260 265 270
 Glu Val Glu Glu Pro Asn Glu Tyr Tyr Cys Tyr Val Ser Ser Arg Gln
 275 280 285
 Gln Pro Ser Gln Pro Leu Gly Cys Arg Phe Ala Met Pro *
 290 295 300 301

<210> 753
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 753
 Met Gly Gly Val Ala Phe Leu Leu Trp Leu Thr Val Phe Ser Ala Trp
 1 5 10 15
 Thr Arg Leu Ser Ile Phe Ser Arg Leu Ser Asp Leu Pro Ser Phe Cys
 20 25 30
 Leu Pro Leu Ala Gly Thr Val Ser Ser Ser Leu Pro Glu Gly Ser Gly
 35 40 45
 Cys Ser Phe Ser Ser Ser Thr Lys *
 50 55 56

<210> 754
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 754
 Met Cys His Trp Gln Asn Ser Phe Leu Cys Gln Ser Phe Leu Thr Phe
 1 5 10 15
 Gly Ser Ile Leu Ala Leu Leu Ala Gly Lys Ala Cys Tyr Pro Glu Ser
 20 25 30
 Glu Ser Ile Arg Glu Leu Phe Met Trp Ala Leu Glu Leu Tyr Ser Leu
 35 40 45
 Pro Phe Tyr Leu Phe Phe Lys Leu Ser Pro Leu Asn Leu Pro Gly Lys
 50 55 60
 Leu Gly Leu Ile Glu Thr Leu Ser Thr Cys Trp Gly Gln Lys Leu Asp
 65 70 75 80
 Pro Val Leu Glu Thr Leu Gln Arg Val Arg Ser Met Ala Ser Leu Ile
 85 90 95
 Ala Asn Phe Phe Val Pro Phe Ile Gln Lys Lys Gly Gln Leu Ile Thr
 100 105 110 112
 *

<210> 755
 <211> 233
 <212> PRT
 <213> Homo sapiens

<400> 755
 Met Ala Trp Ile Pro Leu Phe Leu Gly Val Leu Ala Tyr Cys Thr Gly
 1 5 10 15
 Ser Val Ala Ser Tyr Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser
 20 25 30
 Pro Gly Gln Thr Ala Ser Ile Thr Cys Ser Gly Asp Asn Leu Gly Asn

```

      35      40      45
Lys Tyr Val Ala Trp Tyr Gln Gln Lys Ala Gly Gln Ser Pro Val Leu
      50      55      60
Val Ile Tyr Gln Asp Asp Lys Arg Pro Ser Glu Ile Pro Glu Arg Phe
      65      70      75      80
Ser Gly Ser Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr
      85      90      95
Gln Ala Met Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Ser Ser
      100      105      110
Thr Ala Val Met Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln
      115      120      125
Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser Glu Glu
      130      135      140
Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp Phe Tyr
      145      150      155      160
Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro Val Lys
      165      170      175
Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn Lys Tyr
      180      185      190
Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys Ser His
      195      200      205
Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val Glu Lys
      210      215      220
Thr Val Ala Pro Thr Glu Cys Ser *
      225      230      232

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<210> 756
 <211> 48
 <212> PRT
 <213> Homo sapiens

```

      <400> 756
Met Gly Ala Gly Cys Thr Pro Val Val Leu Gly Ala Ala Leu Trp Leu
      1      5      10      15
Trp Arg Trp Phe Ser Arg Trp Gly Leu Gly Gly Leu Cys Trp Arg Pro
      20      25      30
Cys Thr Cys Thr Pro Cys His Ser Ala Ser Pro Gly Ala Gly Arg *
      35      40      45      47

```

<210> 757
 <211> 48
 <212> PRT
 <213> Homo sapiens

```

      <400> 757
Met Leu Gly Ile Cys Leu Cys Ser Ile Cys Val Leu Arg Leu Cys Leu
      1      5      10      15
Glu Lys Ser Lys Ile Phe Pro Pro Pro Arg Thr Ser Asp His Ser Leu
      20      25      30
Glu Gly Ser Val Thr Pro Val Glu Asn Ala Ala Arg Ser Gly Met *
      35      40      45      47

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<210> 758
 <211> 148
 <212> PRT
 <213> Homo sapiens

<400> 758
 Met Ser Ile Thr Arg Leu Phe Pro Ala Leu Leu Glu Cys Phe Val Ile
 1 5 10 15
 Val Leu Cys Gly Tyr Ile Ala Gly Arg Ala Asn Val Ile Thr Ser Thr
 20 25 30
 Gln Ala Lys Gly Leu Gly Asn Phe Val Ser Arg Phe Ala Leu Pro Ala
 35 40 45
 Leu Leu Phe Lys Asn Met Val Val Leu Asn Phe Ser Asn Val Asp Trp
 50 55 60
 Ala Phe Leu Tyr Ser Ile Leu Ile Ala Lys Ala Ser Val Phe Phe Ile
 65 70 75 80
 Val Cys Val Leu Thr Leu Leu Val Ala Ser Pro Asp Ser Arg Phe Ser
 85 90 95
 Lys Ala Gly Leu Phe Pro Ile Phe Ala Thr Gln Ser Asn Asp Phe Ala
 100 105 110
 Leu Gly Tyr Pro Ile Gly Lys Leu Ile Phe Ile Phe Gln Val Phe Lys
 115 120 125
 Lys Phe Asn Phe Asn Leu Phe Arg His Leu Leu Val Thr Asp Ser Tyr
 130 135 140
 Ser His Ile *
 145 147

<210> 759
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 759
 Met Trp Leu Gly Gln Ala Phe Trp Ala Trp Leu Ser Phe Met Asn Arg
 1 5 10 15
 Trp His Ser Lys Phe Leu Met Val Arg Ser Arg Gly Glu Cys Gly Ala
 20 25 30
 Gln Arg Gln Leu Leu Cys Val Phe Val Phe Arg Asp Ser Leu Arg Glu
 35 40 45
 Gly Met Pro Arg Arg Asn Met Val Ser Ser Glu Ala His Gly Cys Leu
 50 55 60
 Leu Arg Thr Ala Val Phe Tyr Ala Thr Tyr Pro Cys Thr Ser Tyr Ala
 65 70 75 80
 Lys Glu Thr Lys Pro Ser Ala Cys Leu Phe Pro Leu Leu Ile Ile Gly
 85 90 95
 Lys Trp Met Leu Trp Ser Phe Lys Asn *
 100 105

<210> 760
 <211> 115
 <212> PRT
 <213> Homo sapiens

<400> 760
 Met Ser Ser Trp Phe Leu Arg Ala Gly His Gly Leu Ile Trp Val Leu
 1 5 10 15
 Phe Phe Arg Ile Gly Gln Ala Ala Val Gly Val Ser Ala Gly Pro Gly
 20 25 30
 Gly Ser Pro Lys Ala His Leu Gly Arg Val Ala Ser Gln His Pro His
 35 40 45
 Gly Ala Glu Ser Arg Ala Cys Leu Leu Ala Arg Gly Leu Pro Lys Ala

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      50      55      60
Leu Ser Ser Met Leu Ala Val Asp Cys Arg Pro Arg Ser Gly Pro Leu
65      70      75      80
His Arg Ala Ala His Ile Met Ala Ala Ser Leu Ile Ser Lys Pro Val
      85      90      95
Arg Gly Cys Leu Ser Glu Asp Asp Ile Pro Ser Pro Leu Ser Asp Ser
      100      105      110
Ala Tyr *
      114

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<210> 761
 <211> 86
 <212> PRT
 <213> Homo sapiens

```

      <400> 761
Met Gly Trp Asp Ser Lys Leu Leu Phe Leu Phe Thr Cys Leu Ser Cys
1      5      10      15
Val Thr Thr Cys Ser Val Ser Thr Cys Phe Gln Ala Pro Leu Gly Ser
      20      25      30
Ser Ser Phe Ala Pro Ser Gly Ile His Gly Thr Leu Glu Phe Pro Val
      35      40      45
Val Arg Gly Ala His Lys Asn Phe Leu Pro Met Gly Pro Met Tyr Leu
      50      55      60
Phe Pro Ile Thr Ala Gly Gln Pro Leu Thr Leu Phe Val Lys Thr Gln
      65      70      75      80
Ser Ala Gly Arg Asn *
      85

```

<210> 762
 <211> 97
 <212> PRT
 <213> Homo sapiens

```

      <400> 762
Met Cys His Val His Cys Cys Trp Lys Phe Ile Val Glu Leu Leu Gln
1      5      10      15
Cys Val Ile Gln Gly Ile Arg Cys Leu Tyr Phe Gly Asn Ile Cys Asn
      20      25      30
Gly Thr Cys Phe Leu Glu Ser Cys Phe Phe Gly Met Ser Phe Gln Gly
      35      40      45
Ala Asn Phe Leu Phe Phe Gly Asn Ser His Ser Ser Ser Phe Tyr Cys
      50      55      60
Arg Arg Met Ser Pro Phe Pro Arg Gly Glu Gln Val Leu His Phe Ile
      65      70      75      80
Cys His Ser Val Cys Gln Cys Gln Cys Gln Cys Trp Cys Ser Gly Gly
      85      90      95      96
*

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<210> 763
 <211> 116
 <212> PRT
 <213> Homo sapiens
 <221> misc_feature

<222> (1)...(116)

<223> Xaa = any amino acid or nothing

<400> 763

```

Met Leu Leu Trp Val Phe Leu Gln Leu Asn Tyr Lys Ile Gln Ala Ile
 1           5           10           15
Pro Thr Tyr Glu Thr Val Met Thr Phe Phe Lys Ser Phe Pro Glu Asn
      20           25           30
Cys Cys Phe Leu Asp Arg Asp Ile Gly Gln Ser Leu Arg Pro Leu Phe
      35           40           45
Leu Cys Leu Arg Leu His Gly Ile Thr Lys Gly Lys Asp Xaa Glu Val
      50           55           60
Leu Arg His Leu Asn Phe Phe Pro Glu Ser Trp Leu Asp Gln Val Thr
      65           70           75           80
Val Asn His Tyr His Ala Leu Glu Asn Gly Gly Asp Met Val His Leu
      85           90           95
Lys Asp Leu Asn Thr Gln Ala Val Arg Phe Gly Leu Leu Phe Asn Gln
      100          105          110
Glu Asn Thr Thr
      115 116

```

<210> 764

<211> 289

<212> PRT

<213> Homo sapiens

<400> 764

```

Met Leu Ala Met Gly Ala Leu Ala Gly Phe Trp Ile Leu Cys Leu Leu
 1           5           10           15
Thr Tyr Gly Tyr Leu Ser Trp Gly Gln Ala Leu Glu Glu Glu Glu
      20           25           30
Gly Ala Leu Leu Ala Gln Ala Gly Glu Lys Leu Glu Pro Ser Thr Thr
      35           40           45
Ser Thr Ser Gln Pro His Leu Ile Phe Ile Leu Ala Asp Asp Gln Gly
      50           55           60
Phe Arg Asp Val Gly Tyr His Gly Ser Glu Ile Lys Thr Pro Thr Leu
      65           70           75           80
Asp Lys Leu Ala Ala Glu Gly Val Lys Leu Glu Asn Tyr Tyr Val Gln
      85           90           95
Pro Ile Cys Thr Pro Ser Arg Ser Gln Phe Ile Thr Gly Lys Tyr Gln
      100          105          110
Ile His Thr Gly Leu Gln His Ser Ile Ile Arg Pro Thr Gln Pro Asn
      115          120          125
Cys Leu Pro Leu Asp Asn Ala Thr Leu Pro Gln Lys Leu Lys Glu Val
      130          135          140
Gly Tyr Ser Thr His Met Val Gly Lys Trp His Leu Gly Phe Tyr Arg
      145          150          155          160
Lys Glu Cys Met Pro Thr Arg Arg Gly Phe Asp Thr Phe Phe Gly Ser
      165          170          175
Leu Leu Gly Ser Gly Asp Tyr Tyr Thr His Tyr Lys Cys Asp Ser Pro
      180          185          190
Gly Met Cys Gly Tyr Asp Leu Tyr Glu Asn Asp Asn Ala Ala Trp Asp
      195          200          205
Tyr Asp Asn Gly Ile Tyr Ser Thr Gln Met Tyr Thr Gln Arg Val Gln
      210          215          220
Gln Ile Leu Ala Ser His Asn Pro Thr Lys Pro Ile Phe Leu Tyr Ile
      225          230          235          240
Ala Tyr Gln Ala Val His Ser Pro Leu Gln Ala Pro Gly Arg Tyr Phe
      245          250          255
Glu His Tyr Arg Ser Ile Ile Asn Ile Asn Arg Arg Arg Tyr Ala Ala

```

260 265 270
 Met Leu Ser Cys Leu Asp Glu Ala Ile Asn Asn Val Thr Leu Ala Leu
 275 280 285

Lys
 289

<210> 765
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 765
 Met Arg Ser Tyr Lys Pro Asn Pro Leu Leu Phe Pro Lys Leu Gln Ile
 1 5 10 15
 Leu Ile Phe Leu Thr Ser Tyr Leu Ile Phe Thr Leu Arg Tyr Leu Pro
 20 25 30
 Gly Val Phe Asn Ile Leu Phe Lys Thr Val Leu Leu Val Phe Phe Leu
 35 40 45
 Gln Asp Tyr Ser Leu Leu Ile Ser Ala Asn Ser Ser Ser Phe Gln Val
 50 55 60
 Leu Ser Val Lys Thr Tyr Asn *
 65 70 71

<210> 766
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 766
 Met Asp Leu Tyr Val Val Ile Phe Trp Leu Val Tyr Ile Phe Ser Thr
 1 5 10 15
 Tyr Ile Ile Thr Tyr Ile Lys Gly Asn Val Gly Leu Cys Phe Gln Ile
 20 25 30
 Leu Phe Gln Leu Ser Phe Glu Arg Arg Pro Lys Ser Val Arg *
 35 40 45 46

<210> 767
 <211> 118
 <212> PRT
 <213> Homo sapiens

<400> 767
 Met Ser Phe Pro Ile His Leu Arg Phe Phe Ser Leu Phe Phe Leu His
 1 5 10 15
 Trp Leu Leu Leu Ser Gly Phe Ser Ser Leu Leu Pro Trp Ala Ser Ala
 20 25 30
 Phe Val Gln Tyr Ser Arg Cys Pro Glu His Thr Pro Ser Leu Cys Pro
 35 40 45
 Gly Gly Ala Asn Asn Pro Leu Leu Gln Ala Pro Thr Gln Met Leu Pro
 50 55 60
 Pro Leu Gly Cys Leu Leu Cys Ala Leu Pro Ala Ser Pro Ser Pro Tyr
 65 70 75 80
 Leu Cys Trp His Leu Leu Tyr His Ala Phe Arg Asn Leu Leu Ile Pro
 85 90 95
 Leu Ile Ser Gly Ala Pro Cys Gly Ser Gly Ile Pro Lys Phe Ser Lys

100
Cys Leu Ser Val Ser *
115 117

105

110

<210> 768
<211> 57
<212> PRT
<213> Homo sapiens

<400> 768
Met Lys Asn Leu Leu Met Val His Leu Trp Gly Ile Cys Thr Leu Tyr
1 5 10 15
Leu Glu Phe Ser Ala Val Ser Ala Ile Ser Phe Leu Asn His Ile Ser
20 25 30
Val Lys Thr Tyr Phe Pro Asn Ser Ser Ser Phe Tyr Arg Ala Thr Pro
35 40 45
Met Val Leu Asp Phe Ile Leu His *
50 55 56

<210> 769
<211> 57
<212> PRT
<213> Homo sapiens

<400> 769
Met Leu Gly Trp Gln Ile Trp Arg Leu Arg Pro Gln Leu Leu Ser Phe
1 5 10 15
His Thr Gln Asp Arg Cys His Trp Ser Ile Thr Ser Gln Cys Ser Lys
20 25 30
Pro Glu Ser Gln Glu Ser Phe Leu Ser Thr Ile His Leu Leu Glu Gly
35 40 45
Ala Gln Glu Gly Thr Pro Thr Glu *
50 55 56

<210> 770
<211> 58
<212> PRT
<213> Homo sapiens

<400> 770
Met Arg Glu Thr Gly Ile Leu Leu Cys Phe Leu Ser Ala Leu Asn Tyr
1 5 10 15
Ile Thr Leu Val Thr Ser Gln Lys Leu Ile Leu Ser Lys Lys Met His
20 25 30
Val Asn His Tyr Leu Pro Lys Lys Thr Ile Ser Lys Phe Leu Tyr Phe
35 40 45
Val Lys Val Phe His Asp Leu Val Leu *
50 55 57

<210> 771
<211> 74
<212> PRT
<213> Homo sapiens

<400> 771
 Met Lys Gln Leu Ile Tyr Trp Phe Ser Leu Phe Phe Cys Cys Ser Cys
 1 5 10 15
 Cys His Leu Asn Arg His Gly Asn Arg Leu His Thr Thr Glu Ile Phe
 20 25 30
 Pro Ser Leu Phe His Leu Val Cys Cys Ala Asp Pro Leu Pro Trp Met
 35 40 45
 Pro Ala His Ser Phe Gly Ser Pro Phe Trp Ser Leu Phe Ser Thr Tyr
 50 55 60
 Pro Gly Arg Asn Ser Arg Gly Cys Gln *
 65 70 73

<210> 772
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 772
 Met Leu Leu Phe Ser Leu Asn Phe Phe Phe Trp Lys Ile Val Met Phe
 1 5 10 15
 His Lys Asn Val Ile Phe Ile Leu Thr Cys Asn Gly Phe Ile Ile Val
 20 25 30
 Thr Phe Lys Trp Ile Asp Lys Phe Ile Leu Asn Ile Ser Ile Leu Ile
 35 40 45
 Ser Asn Thr Val Asn Val Asn Ser His Asn Pro His Lys Gln Lys Phe
 50 55 60
 Phe Gly Asp Leu Ser Asn Phe *
 65 70 71

<210> 773
 <211> 63
 <212> PRT
 <213> Homo sapiens

<400> 773
 Met Gln Leu Lys Phe Ser Gln Leu Thr Thr Ser Ser Leu Ser Phe Ser
 1 5 10 15
 Ser Ala Leu Trp Leu Leu Ala Phe Ser Arg Val Phe Leu Leu Ala Asp
 20 25 30
 Ser Asn Leu Phe Val Lys Pro Ser Ser Asp Leu Gly Ser Asp Thr Cys
 35 40 45
 Ser Ala Asp Phe Cys Asp Phe Arg Lys Leu Ser Phe Phe Arg *
 50 55 60 62

<210> 774
 <211> 430
 <212> PRT
 <213> Homo sapiens

<400> 774
 Met Cys Pro Gly Ala Leu Trp Val Ala Leu Pro Leu Leu Ser Leu Leu
 1 5 10 15
 Ala Gly Ser Leu Gln Gly Lys Pro Leu Gln Ser Trp Gly Arg Gly Ser

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<210> 775
<211> 56
<212> PRT
<213> Homo sapiens
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<400> 775
Met Phe Gly Met Ile Lys Arg Arg Val Arg Arg Ala Val Phe Val Gly
1 5 10 15
Arg Thr Val Leu Cys Gly Ser Cys Asn Ser Gly Ile Ile Met His Arg

20 25 30
 Gly Lys Thr Pro Pro Leu Lys Met Val Cys Arg Phe Glu Glu Ser Phe
 35 40 45
 Ser Cys Leu Phe Leu Asn Ser *
 50 55

<210> 776
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 776
 Met Gly Phe Leu Phe Leu Asp Ser Ala Leu Met Gln Thr Trp Val
 1 5 10 15
 Thr Val Ile Asp Val Ser Leu His His Val Glu Ile Lys Ala Pro Arg
 20 25 30
 Ile Arg Leu Met Trp Ser Leu Pro Leu Arg Arg Gln Lys Tyr Thr Met
 35 40 45 48
 *

<210> 777
 <211> 107
 <212> PRT
 <213> Homo sapiens

<400> 777
 Met Leu Ala Thr Leu Ala Cys Met Ala Ile Pro Trp Thr His Leu Gly
 1 5 10 15
 Cys Ser Cys Leu Leu Ala Cys Leu Pro Phe Ser His His Leu Gly Leu
 20 25 30
 Ser Glu Asp Ile Ile Ser Ser Glu Lys Pro Ser Val Thr Met Leu Ser
 35 40 45
 Lys Ile Leu Gln His Phe Ser His Pro Leu Ser His Tyr Ser Ala Phe
 50 55 60
 Ser Glu Thr Leu Val Leu Pro Glu Thr Tyr Leu Phe Thr Cys Leu Ala
 65 70 75 80
 Ser Phe Leu Pro His Tyr His Val Ser Phe Leu Arg Val Arg Asp Leu
 85 90 95
 Val Arg Asp Asn His Cys Ile Leu Arg Val *
 100 105 106

<210> 778
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 778
 Met His Thr Pro His Leu Pro Asn Ile Ile Val Tyr Phe Ile Leu Leu
 1 5 10 15
 Tyr Ile Cys Ser Gln Tyr Leu Tyr Leu Leu Thr Ile Arg His Asn His
 20 25 30
 Leu Thr Gln Ser Leu Phe Tyr Asn Lys Leu Leu Ser Val Leu *
 35 40 45 46

<210> 779
 <211> 70
 <212> PRT
 <213> Homo sapiens

<400> 779
 Met Pro Val Thr Pro Asp Pro Ser Ala Val Ser Leu Phe Val Thr Pro
 1 5 10 15
 Trp Pro Leu Leu Cys Leu Pro Trp Pro His Arg Val Pro Gly Gln
 20 25 30
 Ser His Pro Gly Leu His Ser Arg Ala Pro Val His Arg Leu Lys Pro
 35 40 45
 Gly Pro Pro Ala Arg Leu Gln Leu Pro Ala Ala His Arg Asn Leu Arg
 50 55 60
 His Leu Ser Ile Phe *
 65 69

<210> 780
 <211> 70
 <212> PRT
 <213> Homo sapiens

<400> 780
 Met Ser Trp Tyr Thr Cys Gln Cys Leu Phe Phe Leu Ser Asn Thr Leu
 1 5 10 15
 Arg Asn Gly Ala Thr Ser Cys His Trp Tyr Cys Ser Pro Asp Asp Met
 20 25 30
 Gln Met Val Asp Phe Ser Ser Thr Tyr Glu Arg Ile Phe Arg Pro Phe
 35 40 45
 Val Phe Lys Ile Lys Gly Pro Asp Ser Phe Arg Ile Asp Met Ser Pro
 50 55 60
 Ile Pro Glu Asp Ile *
 65 69

<210> 781
 <211> 69
 <212> PRT
 <213> Homo sapiens

<400> 781
 Met Ala Arg Ser Ala Arg Thr Phe Leu Leu Ser Ser Thr Trp His Leu
 1 5 10 15
 Thr Lys Phe Pro Met Ser Ala Gly Tyr Phe Ser Pro Cys Ser Trp Leu
 20 25 30
 Ala Ala Val Ile Arg Leu Ile Gln Arg Val Leu Met Phe Phe Phe
 35 40 45
 Arg Tyr Arg Ala Leu Val His Phe Thr Lys Ala Arg Ile Thr Val Leu
 50 55 60
 Thr Ala Asn Leu *
 65 68

<210> 782
 <211> 192

<212> PRT

<213> Homo sapiens

<400> 782

```

Met Ala Gly Pro Glu Leu Leu Leu Asp Ser Asn Ile Arg Leu Trp Val
 1              5              10              15
Val Leu Pro Ile Val Ile Ile Thr Phe Phe Val Gly Met Ile Arg His
      20              25              30
Tyr Val Ser Ile Leu Leu Gln Ser Asp Lys Lys Leu Thr Gln Glu Gln
      35              40              45
Val Ser Asp Ser Gln Val Leu Ile Arg Ser Arg Val Leu Arg Glu Asn
      50              55              60
Gly Lys Tyr Ile Pro Lys Gln Ser Phe Leu Thr Arg Lys Tyr Tyr Phe
 65              70              75              80
Asn Asn Pro Glu Asp Gly Phe Phe Lys Lys Thr Lys Arg Lys Val Val
      85              90              95
Pro Pro Ser Pro Met Thr Asp Pro Thr Met Leu Thr Asp Met Met Lys
      100             105             110
Gly Asn Val Thr Asn Val Leu Pro Met Ile Leu Ile Gly Gly Trp Ile
      115             120             125
Asn Met Thr Phe Ser Gly Phe Val Thr Thr Lys Val Pro Phe Pro Leu
 130             135             140
Thr Leu Arg Phe Lys Pro Met Leu Gln Gln Gly Ile Glu Leu Leu Thr
145             150             155             160
Leu Asp Ala Ser Trp Val Ser Ser Ala Ser Leu Gly Thr Ser Pro Met
      165             170             175
Val Phe Gly Leu Arg Ser Ile Tyr Ser Ser Asp Ser Gly Pro Arg *
      180             185             190 191

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<210> 783

<211> 52

<212> PRT

<213> Homo sapiens

<400> 783

```

Met Leu Phe Val Val Leu Pro Leu Leu Ile Ile Val Phe Asn Ile Pro
 1              5              10              15
Met Arg Glu Ala Val Phe Asp Phe Leu Phe Met Ile Lys Ile Ile Lys
      20              25              30
Val Leu Lys Val Phe Tyr Cys Ile Ala Cys Phe Ile Ile Lys Gln Ala
      35              40              45
Leu Val Phe *
      50 51

```

<210> 784

<211> 65

<212> PRT

<213> Homo sapiens

<400> 784

```

Met Val Thr Tyr Phe Ile Lys Cys Phe His Tyr Glu Val Ser Phe Leu
 1              5              10              15
Leu Trp Phe Ala Val Val Arg Asn Asp Val Asp Arg Pro Val Ser Leu
      20              25              30
Ser Leu Phe Ser Ser Tyr Ser Leu Phe Ser Thr Tyr Pro Asp Thr Cys
      35              40              45
Pro Leu Phe Lys Leu Pro Thr His Leu Leu Cys Cys Leu Glu Glu Ile

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<210> 785
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 785
 Met Ala Val Pro Ile Met Leu Phe Tyr Phe Ser Leu Leu Tyr Lys Ser
 1 5 10 15
 Leu Ala Phe Phe Glu Ser Tyr Ser Phe Ala Glu Tyr His Pro Pro Thr
 20 25 30
 Ser Gly Arg Gln Gly Cys Val Lys Asp Ile Leu Lys Arg Leu Ile Trp
 35 40 45
 Phe Leu Ile His Leu His Leu Asp Ala Gly
 50 55 58

<210> 786
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 786
 Met Ala Val Lys Asn Val Ala Leu Val Ile Thr Trp Ala Tyr Gly Phe
 1 5 10 15
 Val Lys Val Thr Leu Ser Leu Leu Val Phe Cys Val Tyr Cys Met Tyr
 20 25 30
 Val Ile Leu His Leu Arg Met Tyr Ile Thr His Lys Gly Ala Cys Arg
 35 40 45
 His Met Ser Ala Ser Trp Leu Ala Thr Asn Cys Leu Trp Pro Trp Gly
 50 55 60
 Cys His Ser Thr Phe His Leu Glu Ile Glu Asn Asn Asn Thr Ile Ile
 65 70 75 80
 Leu Leu Glu Leu Cys Ala *
 85 86

<210> 787
 <211> 66
 <212> PRT
 <213> Homo sapiens

<400> 787
 Met Phe Gly Val Ser Gly Phe Cys Leu Leu Phe Thr Phe Leu Glu Leu
 1 5 10 15
 Val Leu Leu Gly Leu Gly Arg Trp Trp Arg Thr Trp Lys His Lys Ser
 20 25 30
 Ser Ser Ser Lys Tyr Phe Leu Thr Ser Glu Ser Thr Arg Arg His Lys
 35 40 45
 Lys Ala Thr Asp Ser Leu Pro Val Val Glu Thr Lys Glu Gln Phe Gln
 50 55 60
 Glu Ala
 65 66

<210> 788
 <211> 440
 <212> PRT
 <213> Homo sapiens

<400> 788
 Met Ala Ala Ala Arg Cys Trp Arg Pro Leu Leu Arg Gly Pro Arg Leu
 1 5 10 15
 Ser Leu His Thr Ala Ala Asn Ala Ala Thr Ala Thr Glu Thr Thr
 20 25 30
 Cys Gln Asp Val Ala Ala Thr Pro Val Ala Arg Tyr Pro Pro Ile Val
 35 40 45
 Ala Ser Met Thr Ala Asp Ser Lys Ala Ala Arg Leu Arg Arg Ile Glu
 50 55 60
 Arg Trp Gln Ala Thr Val His Ala Ala Glu Ser Val Asp Glu Lys Leu
 65 70 75 80
 Arg Ile Leu Thr Lys Met Gln Phe Met Lys Tyr Met Val Tyr Pro Gln
 85 90 95
 Thr Phe Ala Leu Asn Ala Asp Arg Trp Tyr Gln Tyr Phe Thr Lys Thr
 100 105 110
 Val Phe Leu Ser Gly Leu Pro Pro Pro Pro Ala Glu Pro Glu Pro Glu
 115 120 125
 Pro Glu Pro Glu Pro Glu Pro Ala Leu Asp Leu Ala Leu Arg Ala
 130 135 140
 Val Ala Cys Asp Cys Leu Leu Gln Glu His Phe Tyr Leu Arg Arg Arg
 145 150 155 160
 Arg Arg Val His Arg Tyr Glu Glu Ser Glu Val Ile Ser Leu Pro Phe
 165 170 175
 Leu Asp Gln Leu Val Ser Thr Leu Val Gly Leu Leu Ser Pro His Asn
 180 185 190
 Pro Ala Leu Ala Ala Ala Ala Leu Asp Tyr Arg Cys Pro Val His Phe
 195 200 205
 Tyr Trp Val Arg Gly Glu Glu Ile Ile Pro Arg Gly His Arg Arg Gly
 210 215 220
 Arg Ile Asp Asp Leu Arg Tyr Gln Ile Asp Asp Lys Pro Asn Asn Gln
 225 230 235 240
 Ile Arg Ile Ser Lys Gln Leu Ala Glu Phe Val Pro Leu Asp Tyr Ser
 245 250 255
 Val Pro Ile Glu Ile Pro Thr Ile Lys Cys Lys Pro Asp Lys Leu Pro
 260 265 270
 Leu Phe Lys Arg Gln Tyr Glu Asn His Ile Phe Val Gly Ser Lys Thr
 275 280 285
 Ala Asp Pro Cys Cys Tyr Gly His Thr Gln Phe His Leu Leu Pro Asp
 290 295 300
 Lys Leu Arg Arg Glu Arg Leu Leu Arg Gln Asn Cys Ala Asp Gln Ile
 305 310 315 320
 Glu Val Val Phe Arg Ala Asn Ala Ile Ala Ser Leu Phe Ala Trp Thr
 325 330 335
 Gly Ala Gln Ala Met Tyr Gln Gly Phe Trp Ser Glu Ala Asp Val Thr
 340 345 350
 Arg Pro Phe Val Ser Gln Ala Val Ile Thr Asp Gly Lys Tyr Phe Ser
 355 360 365
 Phe Phe Cys Tyr Gln Leu Asn Thr Leu Ala Leu Thr Thr Gln Ala Asp
 370 375 380
 Gln Asn Asn Pro Arg Lys Asn Ile Cys Trp Gly Thr Gln Ser Lys Pro
 385 390 395 400
 Leu Tyr Glu Thr Ile Glu Asp Asn Asp Val Lys Gly Phe Asn Asp Asp
 405 410 415
 Val Leu Leu Gln Ile Val His Phe Leu Leu Asn Arg Pro Lys Glu Glu
 420 425 430
 Lys Ser Gln Leu Leu Glu Asn *

<210> 789
<211> 67
<212> PRT
<213> Homo sapiens

<400> 789
Met Gly Leu Phe Ala Ile His Ile Ser Ser Trp Leu Leu Arg Ala Cys
1 5 10 15
Phe Leu Ile Ile Glu Asn Phe Glu Ser Val Leu Tyr Ile Ser Asn Thr
20 25 30
His Pro Phe Ile Tyr Met Gly Leu His Arg Phe Phe Ser Gln Pro Ser
35 40 45
Val Trp Ile Leu Leu Phe Leu Thr Gly Pro Leu Asn Thr Lys Ser Tyr
50 55 60
Tyr His *
65 66

<210> 790
<211> 77
<212> PRT
<213> Homo sapiens

<400> 790
Met Phe Lys Val Val Phe Cys Phe Gly Leu Val Trp Phe Cys Phe Gln
1 5 10 15
Arg Ala His Lys Pro Ile Arg Phe Glu Lys His Asn Phe Thr Ile Asn
20 25 30
Glu Gly Asn Leu Phe Ser Met Asn Ile Pro Ile Val Thr Ile Arg Ser
35 40 45
His His Arg Thr Ser Cys Tyr His Lys Leu Ile Thr Cys Glu Gln Gln
50 55 60
Thr Val Phe Thr Asn Ile Lys Arg His Ser Lys Leu *
65 70 75 76

<210> 791
<211> 54
<212> PRT
<213> Homo sapiens

<400> 791
Met Asn Leu Tyr Leu Phe Ala Val Leu Phe Phe Tyr Val Phe Leu His
1 5 10 15
Ile Lys Ile Ile Phe Ile Cys Phe Ala Thr Lys Trp His Asn Leu Phe
20 25 30
Ser Lys Phe Ser Tyr Phe Cys Ile Leu His Val Lys Ala Leu Ser Leu
35 40 45
Asn Leu Gly Ser Gly *
50 53

<210> 792
<211> 52

<212> PRT

<213> Homo sapiens

<400> 792

```

Met Tyr Ser Leu Ser Leu Gln Leu Pro Val Leu Cys Val Leu Lys Ser
 1           5           10           15
Phe Lys Ala Tyr Ser Leu Leu Trp Gly Val Ser Thr Gly Val Lys Glu
           20           25           30
Gly Phe Ala Gly Arg Thr Ile Val Asn His Glu Ser Tyr Tyr Leu Arg
           35           40           45
Ile Val Trp *
           50  51

```

<210> 793

<211> 63

<212> PRT

<213> Homo sapiens

<400> 793

```

Met Cys Thr Leu Phe Met His Leu Leu Phe Cys His Leu Gln Ser Ile
 1           5           10           15
Gln Leu Lys Gln Glu Leu Arg Leu Asn Tyr Leu Thr Leu Thr Gln Phe
           20           25           30
Trp Gln Arg Cys Tyr Ser Glu Met Ile Phe Phe Cys Leu Ser Lys Val
           35           40           45
Phe Leu His Val Phe Gln Asp Gly Leu Glu His His Leu Glu *
           50           55           60           62

```

<210> 794

<211> 51

<212> PRT

<213> Homo sapiens

<400> 794

```

Met Phe Ala Thr Thr Leu Gly Val Met Gly Leu Trp Ser Gly Ile Ile
 1           5           10           15
Ile Cys Thr Val Phe Gln Ala Val Cys Phe Leu Gly Phe Ile Ile Gln
           20           25           30
Leu Asn Trp Lys Lys Ala Cys Gln Gln Gly Ala Leu Lys Thr Leu Lys
           35           40           45
Glu Phe *
           50

```

<210> 795

<211> 70

<212> PRT

<213> Homo sapiens

<400> 795

```

Met His Leu Thr Leu Ser Leu Leu Leu Phe Ser Leu His Phe Pro Thr
 1           5           10           15
Tyr Ile Ile Arg Val Asn Phe Cys Leu Val Ser Asn Leu Phe Gln Arg
           20           25           30
Met Arg Ser Thr Lys Leu Leu Arg Leu Ile Asp Leu Asp Phe Ser Phe

```

35 40 45
 Thr Phe Ser Leu Leu Asp Leu Pro Pro Val Asn Glu Tyr Asp Met Tyr
 50 55 60
 Ile Arg Asn Phe Gly Lys
 65 70

<210> 796
 <211> 158
 <212> PRT
 <213> Homo sapiens

<400> 796
 Met Val Lys Ser Val Ile Phe Leu Ser Phe Trp Gln Gly Met Leu Leu
 1 5 10 15
 Ala Ile Leu Glu Lys Cys Gly Ala Ile Pro Lys Ile His Ser Ala Arg
 20 25 30
 Val Ser Val Gly Glu Gly Thr Val Ala Ala Gly Tyr Gln Asp Phe Ile
 35 40 45
 Ile Cys Gly Glu Met Phe Phe Ala Ala Leu Ala Leu Arg His Ala Phe
 50 55 60
 Thr Tyr Lys Val Tyr Ala Asp Lys Arg Leu Asp Ala Gln Gly Arg Cys
 65 70 75 80
 Ala Pro Met Lys Ser Ile Ser Ser Ser Leu Lys Glu Thr Met Asn Pro
 85 90 95
 His Asp Ile Val Gln Asp Ala Ile His Asn Phe Ser Pro Ala Tyr Gln
 100 105 110
 Gln Tyr Thr Gln Gln Ser Thr Leu Glu Pro Gly Pro Thr Trp Arg Gly
 115 120 125
 Gly Ala His Gly Leu Ser Arg Ser His Ser Leu Ser Gly Ala Arg Asp
 130 135 140
 Asn Glu Lys Thr Leu Leu Ser Ser Asp Asp Glu Phe *
 145 150 155 157

<210> 797
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 797
 Met Gly Lys Lys Val Thr Leu Leu Leu Gln Lys Cys Ala Trp Leu Leu
 1 5 10 15
 Leu Val Cys Cys Leu Phe Thr Gly Ile Lys Tyr Leu Asn Lys Cys Phe
 20 25 30
 Ile Thr Asp Arg Glu Leu Leu Arg Asp Val His Asn Ala Leu Asn Ile
 35 40 45
 Leu Arg His Asn Phe Tyr Val Asn Trp Ala Ser Leu Asn Thr Phe *
 50 55 60 63

<210> 798
 <211> 90
 <212> PRT
 <213> Homo sapiens

<400> 798
 Met Val Gln Leu Phe Ile Pro Ile Leu Lys Phe Gln Leu Gly Tyr Ser

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      1           5           10           15
Val Leu Ser Leu Cys Asn His Val Leu Glu Phe Leu Phe Pro Ser Ser
      20           25           30
Leu Ser Gly Ile Phe Ser Ser Ser Leu Pro Leu Leu Leu Pro Phe Pro
      35           40           45
Leu Ser Leu Pro Ser Leu Pro Pro Ser Leu Phe Pro Ser Leu Arg Val
      50           55           60
Leu Leu Cys His Pro His Trp Ser Val Ala Ser Asn Ser Trp Ala Val
      65           70           75           80
Ala Ile Leu Leu Pro Gln Pro Pro Glu *
      85           89

```

<210> 799

<211> 57

<212> PRT

<213> Homo sapiens

<400> 799

```

Met Tyr Leu Leu Ile Leu Leu Ser Thr Lys Phe Ser Cys Ile Ser Ser
      1           5           10           15
Leu Pro Gly Leu Asp Tyr Arg Gln Asp Ser Met Leu Cys Gln Gly Ile
      20           25           30
Ser Leu Ala Pro Thr Leu Leu Ile Ile His Leu Phe Met Cys Ile Met
      35           40           45
Ile Lys Tyr Lys Pro Leu Ile Arg *
      50           55 56

```

<210> 800

<211> 47

<212> PRT

<213> Homo sapiens

<400> 800

```

Met Cys Val His Pro Tyr Val Cys Thr Cys Ala Cys Met His Val Cys
      1           5           10           15
Val Cys Leu Cys Ala Trp Cys Leu Ser Gln Pro Gly Gly Leu Gly Gly
      20           25           30
Phe Ser Glu Glu Val Thr Ser Leu Pro Arg Pro Arg Ala Leu *
      35           40           45 46

```

<210> 801

<211> 119

<212> PRT

<213> Homo sapiens

<400> 801

```

Met Leu Phe Leu Lys Lys Ile Gln Phe Leu Lys Cys Asn Lys Val Phe
      1           5           10           15
Arg Ser Leu Asp Phe Cys Val Ala Leu Pro Leu Leu Phe Ser Ser Ser
      20           25           30
Ala Val Leu Gln Ile Thr Pro Val Asp Thr Phe Ser Asp Pro His Leu
      35           40           45
Val Leu Thr Leu Val Lys Leu Leu Met Asn Ile Leu Asn Ile Ala Val
      50           55           60
Ile Ser Leu Thr Phe Pro Gly Glu Tyr Glu Val Ser Leu Ala Phe Glu

```


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```

65          70          75          80
Asn Ile Leu Met Tyr Thr His Ala Phe Ile Ile Cys Phe Cys Asn Arg
      85          90          95
Gln Trp Leu Phe Lys Ser Asn Ser Glu Ser Asn Leu Ser Ser Asn Val
      100          105          110
Asn Leu Phe Asp Ser Cys *
      115          118

```

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<210> 802
<211> 112
<212> PRT
<213> Homo sapiens

```

```

<400> 802
Met Gln Leu His Gly Lys Gly Ser Gln Asp Pro Ser Thr Lys Gly His
 1          5          10          15
Ile Lys Ala Leu Gln Thr Val Thr Ser Phe Leu Leu Cys Ala Ile
      20          25          30
Tyr Phe Leu Ser Met Ile Ile Ser Val Cys Asn Phe Gly Arg Leu Glu
      35          40          45
Lys Gln Pro Val Phe Met Phe Cys Gln Ala Ile Ile Phe Ser Tyr Pro
      50          55          60
Ser Thr His Pro Phe Ile Leu Ile Leu Gly Asn Lys Lys Leu Lys Gln
      65          70          75          80
Ile Phe Leu Ser Val Leu Arg His Val Arg Tyr Trp Val Lys Asp Arg
      85          90          95
Ser Leu Arg Leu His Arg Phe Thr Arg Gly Ala Leu Cys Val Phe *
      100          105          110 111

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<210> 803
<211> 319
<212> PRT
<213> Homo sapiens

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```

<400> 803
Met Ala Pro Trp Ala Glu Ala Glu His Ser Ala Leu Asn Pro Leu Arg
 1          5          10          15
Ala Val Trp Leu Thr Leu Thr Ala Ala Phe Leu Leu Thr Leu Leu
      20          25          30
Gln Leu Leu Pro Pro Gly Leu Leu Pro Gly Cys Ala Ile Phe Gln Asp
      35          40          45
Leu Ile Arg Tyr Gly Lys Thr Lys Cys Gly Glu Pro Ser Arg Pro Ala
      50          55          60
Ala Cys Arg Ala Phe Asp Val Pro Lys Arg Tyr Phe Ser His Phe Tyr
      65          70          75          80
Ile Ile Ser Val Leu Trp Asn Gly Phe Leu Leu Trp Cys Leu Thr Gln
      85          90          95
Ser Leu Phe Leu Gly Ala Pro Phe Pro Ser Trp Leu His Gly Leu Leu
      100          105          110
Arg Ile Leu Gly Ala Ala Gln Phe Gln Gly Gly Glu Leu Ala Leu Ser
      115          120          125
Ala Phe Leu Val Leu Val Phe Leu Trp Leu His Ser Leu Arg Arg Leu
      130          135          140
Phe Glu Cys Leu Tyr Val Ser Val Phe Ser Asn Val Met Ile His Val
      145          150          155          160
Val Gln Tyr Cys Phe Gly Leu Val Tyr Tyr Val Leu Val Gly Leu Thr
      165          170          175
Val Leu Ser Gln Val Pro Met Asp Gly Arg Asn Ala Tyr Ile Thr Gly

```



```

      290              295              300
Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val
305              310              315              320
Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln
      325              330              335
Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser
      340              345              350
Lys Ala Asp Tyr Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His
      355              360              365
Gln Gly Leu Ser Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
      370              375              380              384

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<210> 805
<211> 385
<212> PRT
<213> Homo sapiens

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      <400> 805
Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
1              5              10              15
Val Gln Cys Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
      20              25              30
Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
      35              40              45
Ser Ser Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
      50              55              60
Glu Trp Val Ser Gly Leu Ser Gly Ser Gly Gly Ser Ser Thr Tyr Tyr
65              70              75              80
Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys
      85              90              95
Gly Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Asp Asp Thr Ala
      100              105              110
Arg Tyr Tyr Cys Ala Lys Gly Gly Val Glu Leu Ala Ser Thr Lys Pro
      115              120              125
Ser Ser Ile Trp Arg Leu Asn Pro Ile Arg Tyr Trp Tyr Phe Asp Leu
      130              135              140
Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Asp Gly Ser Ser
145              150              155              160
Gly Gly Ser Gly Gly Ala Ser Thr Gly Glu Ile Val Leu Thr Gln Ser
      165              170              175
Pro Gly Thr Leu Ser Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys
      180              185              190
Arg Ala Ser Gln Ser Val Ser Ser Ser Tyr Leu Ala Trp Tyr Gln Gln
      195              200              205
Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr Gly Ala Ser Ser Arg
      210              215              220
Ala Thr Gly Ile Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp
225              230              235              240
Phe Thr Leu Thr Ile Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr
      245              250              255
Tyr Cys Gln Gln Tyr Gly Ser Ser Pro Thr Thr Phe Gly Gln Gly Thr
      260              265              270
Lys Val Asp Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe
      275              280              285
Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys
      290              295              300
Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val
305              310              315              320
Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln

```

```

          325          330          335
Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser
          340          345          350
Lys Ala Asp Tyr Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His
          355          360          365
Gln Gly Leu Ser Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
          370          375          380          384
*
```

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<210> 806
<211> 385
<212> PRT
<213> Homo sapiens
```

```

<400> 806
Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
  1          5          10          15
Val Gln Cys Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
          20          25          30
Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
          35          40          45
Ser Ser Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
          50          55          60
Glu Trp Val Ser Gly Leu Ser Gly Ser Gly Ser Ser Thr Tyr Tyr
          65          70          75          80
Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys
          85          90          95
Gly Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Asp Asp Thr Ala
          100          105          110
Arg Tyr Tyr Cys Ala Lys Gly Gly Val Glu Leu Ala Ser Thr Lys Pro
          115          120          125
Ser Ser Ile Trp Arg Leu Asn Pro Ile Arg Tyr Trp Tyr Phe Asp Leu
          130          135          140
Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Asp Gly Ser Ser
          145          150          155          160
Gly Gly Ser Gly Gly Ala Ser Thr Gly Glu Ile Val Leu Thr Gln Ser
          165          170          175
Pro Gly Thr Leu Ser Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys
          180          185          190
Arg Ala Ser Gln Ser Val Ser Ser Ser Tyr Leu Ala Trp Tyr Gln Gln
          195          200          205
Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr Gly Ala Ser Ser Arg
          210          215          220
Ala Thr Gly Ile Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp
          225          230          235          240
Phe Thr Leu Thr Ile Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr
          245          250          255
Tyr Cys Gln Gln Tyr Gly Ser Ser Pro Thr Thr Phe Gly Gln Gly Thr
          260          265          270
Lys Val Asp Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe
          275          280          285
Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys
          290          295          300
Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val
          305          310          315          320
Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln
          325          330          335
Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser
          340          345          350
Lys Ala Asp Tyr Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His
```

355 360 365
 Gln Gly Leu Ser Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 370 375 380 384

*

<210> 807
 <211> 385
 <212> PRT
 <213> Homo sapiens

<400> 807
 Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
 1 5 10 15
 Val Gln Cys Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
 20 25 30
 Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
 35 40 45
 Ser Ser Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
 50 55 60
 Glu Trp Val Ser Gly Leu Ser Gly Ser Gly Gly Ser Ser Thr Tyr Tyr
 65 70 75 80
 Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys
 85 90 95
 Gly Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Asp Asp Thr Ala
 100 105 110
 Arg Tyr Tyr Cys Ala Lys Gly Gly Val Glu Leu Ala Ser Thr Lys Pro
 115 120 125
 Ser Ser Ile Trp Arg Leu Asn Pro Ile Arg Tyr Trp Tyr Phe Asp Leu
 130 135 140
 Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Asp Gly Ser Ser
 145 150 155 160
 Gly Gly Ser Gly Gly Ala Ser Thr Gly Glu Ile Val Leu Thr Gln Ser
 165 170 175
 Pro Gly Thr Leu Ser Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys
 180 185 190
 Arg Ala Ser Gln Ser Val Ser Ser Ser Tyr Leu Ala Trp Tyr Gln Gln
 195 200 205
 Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr Gly Ala Ser Ser Arg
 210 215 220
 Ala Thr Gly Ile Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp
 225 230 235 240
 Phe Thr Leu Thr Ile Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr
 245 250 255
 Tyr Cys Gln Gln Tyr Gly Ser Ser Pro Thr Thr Phe Gly Gln Gly Thr
 260 265 270
 Lys Val Asp Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe
 275 280 285
 Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys
 290 295 300
 Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val
 305 310 315 320
 Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln
 325 330 335
 Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser
 340 345 350
 Lys Ala Asp Tyr Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His
 355 360 365
 Gln Gly Leu Ser Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 370 375 380 384

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<210> 808
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 808
 Met Phe Pro Pro Tyr Phe Ser Leu Ile Leu Leu Leu Phe Thr Phe Ala
 1 5 10 15
 Ser Lys Phe Phe Leu Ser Leu Asn Leu Lys Lys Ser Asn Ile Val Lys
 20 25 30
 Ala Arg Ile Glu Ser Thr Lys Thr Val Ile Ser Lys Arg Cys *
 35 40 45 46

<210> 809
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 809
 Met Gln Ser Val Ile Arg Lys Gln Phe Thr Ala Leu Ala Gly Phe Cys
 1 5 10 15
 Phe Trp Phe Cys Leu Phe Thr Leu Ala Val Leu Ser Leu Thr Leu Leu
 20 25 30
 Ile Cys Lys Leu Arg Ile Met Pro Phe Lys Leu Glu Gly Leu Phe Gln
 35 40 45
 Glu Leu Asn Lys Ser Trp His Met Lys Leu Leu Ser Gln Asp Arg Glu
 50 55 60
 Leu Ile Asn Met Leu Leu Leu Met Gly Arg Ser *
 65 70 75 76

<210> 810
 <211> 1189
 <212> PRT
 <213> Homo sapiens

<400> 810
 Met Asp Leu Pro Arg Gly Leu Val Val Ala Trp Ala Leu Ser Leu Trp
 1 5 10 15
 Pro Gly Phe Thr Asp Thr Phe Asn Met Asp Thr Arg Lys Pro Arg Val
 20 25 30
 Ile Pro Gly Ser Arg Thr Ala Phe Gly Tyr Thr Val Gln Gln His
 35 40 45
 Asp Ile Ser Gly Asn Lys Trp Leu Val Val Gly Ala Pro Leu Glu Thr
 50 55 60
 Asn Gly Tyr Gln Lys Thr Gly Asp Val Tyr Lys Cys Pro Val Ile His
 65 70 75 80
 Gly Asn Cys Thr Lys Leu Asn Leu Gly Arg Val Thr Leu Ser Asn Val
 85 90 95
 Ser Glu Arg Lys Asp Asn Met Arg Leu Gly Leu Ser Leu Ala Thr Asn
 100 105 110
 Pro Lys Asp Asn Ser Phe Leu Ala Cys Ser Pro Leu Trp Ser His Glu
 115 120 125
 Cys Gly Ser Ser Tyr Tyr Thr Thr Gly Met Cys Ser Arg Val Asn Ser

130 135 140
 Asn Phe Arg Phe Ser Lys Thr Val Ala Pro Ala Leu Gln Arg Cys Gln
 145 150 155 160
 Thr Tyr Met Asp Ile Val Ile Val Leu Asp Gly Ser Asn Ser Ile Tyr
 165 170 175
 Pro Trp Val Glu Val Gln His Phe Leu Ile Asn Ile Leu Lys Lys Phe
 180 185 190
 Tyr Ile Gly Pro Gly Gln Ile Gln Val Gly Val Val Gln Tyr Gly Glu
 195 200 205
 Asp Val Val His Glu Phe His Leu Asn Asp Tyr Arg Ser Val Lys Asp
 210 215 220
 Val Val Glu Ala Ala Ser His Ile Glu Gln Arg Gly Gly Thr Glu Thr
 225 230 235 240
 Arg Thr Ala Phe Gly Ile Glu Phe Ala Arg Ser Glu Ala Phe Gln Lys
 245 250 255
 Gly Gly Arg Lys Gly Ala Lys Lys Val Met Ile Val Ile Thr Asp Gly
 260 265 270
 Glu Ser His Asp Ser Pro Asp Leu Glu Lys Val Ile Gln Gln Ser Glu
 275 280 285
 Arg Asp Asn Val Thr Arg Tyr Ala Val Ala Val Leu Gly Tyr Tyr Asn
 290 295 300
 Arg Arg Gly Ile Asn Pro Glu Thr Phe Leu Asn Glu Ile Lys Tyr Ile
 305 310 315 320
 Ala Ser Asp Pro Asp Asp Lys His Phe Phe Asn Val Thr Asp Glu Ala
 325 330 335
 Ala Leu Lys Asp Ile Val Asp Ala Leu Gly Asp Arg Ile Phe Ser Leu
 340 345 350
 Glu Gly Thr Asn Lys Asn Glu Thr Ser Phe Gly Leu Glu Met Ser Gln
 355 360 365
 Thr Gly Phe Ser Ser His Val Val Glu Asp Gly Val Leu Leu Gly Ala
 370 375 380
 Val Gly Ala Tyr Asp Trp Asn Gly Ala Val Leu Lys Glu Thr Ser Ala
 385 390 395 400
 Gly Lys Val Ile Pro Leu Arg Glu Ser Tyr Leu Lys Glu Phe Pro Glu
 405 410 415
 Glu Leu Lys Asn His Gly Ala Tyr Leu Gly Tyr Thr Val Thr Ser Val
 420 425 430
 Val Ser Ser Arg Gln Gly Arg Val Tyr Val Ala Gly Ala Pro Arg Phe
 435 440 445
 Asn His Thr Gly Lys Val Ile Leu Phe Thr Met His Asn Asn Arg Ser
 450 455 460
 Leu Thr Ile His Gln Ala Met Arg Gly Gln Gln Ile Gly Ser Tyr Phe
 465 470 475 480
 Gly Ser Glu Ile Thr Ser Val Asp Ile Asp Gly Asp Gly Val Thr Asp
 485 490 495
 Val Leu Leu Val Gly Ala Pro Met Tyr Phe Asn Glu Gly Arg Glu Arg
 500 505 510
 Gly Lys Val Tyr Val Tyr Glu Leu Arg Gln Asn Arg Phe Val Tyr Asn
 515 520 525
 Gly Thr Leu Lys Asp Ser His Ser Tyr Gln Asn Ala Arg Phe Gly Ser
 530 535 540
 Ser Ile Ala Ser Val Arg Asp Leu Asn Gln Asp Ser Tyr Asn Asp Val
 545 550 555 560
 Val Val Gly Ala Pro Leu Glu Asp Asn His Ala Gly Ala Ile Tyr Ile
 565 570 575
 Phe His Gly Phe Arg Gly Ser Ile Leu Lys Thr Pro Lys Gln Arg Ile
 580 585 590
 Thr Ala Ser Glu Leu Ala Thr Gly Leu Gln Tyr Phe Gly Cys Ser Ile
 595 600 605
 His Gly Gln Leu Asp Leu Asn Glu Asp Gly Leu Ile Asp Leu Ala Val
 610 615 620
 Gly Ala Leu Gly Asn Ala Val Ile Leu Trp Ser Arg Pro Val Val Gln
 625 630 635 640
 Ile Asn Ala Ser Leu His Phe Glu Pro Ser Lys Ile Asn Ile Phe His

645 650 655
 Arg Asp Cys Lys Arg Ser Gly Arg Asp Ala Thr Cys Leu Ala Ala Phe
 660 665 670
 Leu Cys Phe Thr Pro Ile Phe Leu Ala Pro His Phe Gln Thr Thr Thr
 675 680 685
 Val Gly Ile Arg Tyr Asn Ala Thr Met Asp Glu Arg Arg Tyr Thr Pro
 690 695 700
 Arg Ala His Leu Asp Glu Gly Gly Asp Arg Phe Thr Asn Arg Ala Val
 705 710 715 720
 Leu Leu Ser Ser Gly Gln Glu Leu Cys Glu Arg Ile Asn Phe His Val
 725 730 735
 Leu Asp Thr Ala Asp Tyr Val Lys Pro Val Thr Phe Ser Val Glu Tyr
 740 745 750
 Ser Leu Glu Asp Pro Asp His Gly Pro Met Leu Asp Asp Gly Trp Pro
 755 760 765
 Thr Thr Leu Arg Val Ser Val Pro Phe Trp Asn Gly Cys Asn Glu Asp
 770 775 780
 Glu His Cys Val Pro Asp Leu Val Leu Asp Ala Arg Ser Asp Leu Pro
 785 790 795 800
 Thr Ala Met Glu Tyr Cys Gln Arg Val Leu Arg Lys Pro Ala Gln Asp
 805 810 815
 Cys Ser Ala Tyr Thr Leu Ser Phe Asp Thr Thr Val Phe Ile Ile Glu
 820 825 830
 Ser Thr Arg Gln Arg Val Ala Val Glu Ala Thr Leu Glu Asn Arg Gly
 835 840 845
 Glu Asn Ala Tyr Ser Thr Val Leu Asn Ile Ser Gln Ser Ala Asn Leu
 850 855 860
 Gln Phe Ala Ser Leu Ile Gln Lys Glu Asp Ser Asp Gly Ser Ile Glu
 865 870 875 880
 Cys Val Asn Glu Glu Arg Arg Leu Gln Lys Gln Val Cys Asn Val Ser
 885 890 895
 Tyr Pro Phe Phe Arg Ala Lys Ala Lys Val Ala Phe Arg Leu Asp Phe
 900 905 910
 Glu Phe Ser Lys Ser Ile Phe Leu His His Leu Glu Ile Glu Leu Ala
 915 920 925
 Ala Gly Ser Asp Ser Asn Glu Arg Asp Ser Thr Lys Glu Asp Asn Val
 930 935 940
 Ala Pro Leu Arg Phe His Leu Lys Tyr Glu Val Asp Val Leu Phe Thr
 945 950 955 960
 Arg Ser Ser Ser Leu Ser His Tyr Glu Val Lys Pro Asn Ser Ser Leu
 965 970 975
 Glu Arg Tyr Asp Gly Ile Gly Pro Pro Phe Ser Cys Ile Phe Arg Ile
 980 985 990
 Gln Asn Leu Gly Leu Phe Pro Ile His Gly Met Met Lys Ile Thr
 995 1000 1005
 Ile Pro Ile Ala Thr Arg Ser Gly Asn Arg Leu Leu Lys Leu Arg Asp
 1010 1015 1020
 Phe Leu Thr Asp Glu Ala Asn Thr Ser Cys Asn Ile Trp Gly Asn Ser
 1025 1030 1035 1040
 Thr Glu Tyr Arg Pro Thr Pro Val Glu Glu Asp Leu Arg Arg Ala Pro
 1045 1050 1055
 Gln Leu Asn His Ser Asn Ser Asp Val Val Ser Ile Asn Cys Asn Ile
 1060 1065 1070
 Arg Leu Val Pro Asn Gln Glu Ile Asn Phe His Leu Leu Gly Asn Leu
 1075 1080 1085
 Trp Leu Arg Ser Leu Lys Ala Leu Lys Tyr Lys Ser Met Lys Ile Met
 1090 1095 1100
 Val Asn Ala Ala Leu Gln Arg Gln Phe His Ser Pro Phe Ile Phe Arg
 1105 1110 1115 1120
 Glu Glu Asp Pro Ser Arg Gln Ile Val Phe Glu Ile Ser Lys Gln Glu
 1125 1130 1135
 Asp Trp Gln Val Pro Ile Trp Ile Ile Val Gly Ser Thr Leu Gly Gly
 1140 1145 1150
 Leu Leu Leu Leu Ala Leu Leu Val Leu Ala Leu Trp Lys Leu Gly Phe

1155 1160 1165
 Phe Arg Ser Ala Arg Arg Arg Arg Glu Pro Gly Leu Asp Pro Thr Pro
 1170 1175 1180
 Lys Val Leu Glu *
 1185 1188

<210> 811
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 811
 Met Ala Leu Asn Ile Ile Ile Asn Pro Val Trp Phe Cys His Cys Leu
 1 5 10 15
 Thr Cys Thr Ile His Ile Asp Phe His Ile Leu Phe Ile Lys Ile Phe
 20 25 30
 Lys His Met Phe Phe Arg Ser Leu Trp Ser Ser Trp Leu Ser His Gln
 35 40 45
 Leu Asp His Ile *
 50 52

<210> 812
 <211> 78
 <212> PRT
 <213> Homo sapiens

<400> 812
 Met Ala Ile Phe Pro Leu Trp Lys Gly Val Asn Val Leu Val Cys Ile
 1 5 10 15
 Phe Ser Ser Phe Ile Met Leu Asn Ile Tyr Cys Thr Leu Leu Ile Trp
 20 25 30
 Lys Phe Ile Tyr Ser Ala Phe Phe Cys Tyr Ile Thr Ser Leu Met Ile
 35 40 45
 Phe Pro Phe Ser Phe Phe Cys Ser Phe Phe Leu Asp Leu Leu Lys Val
 50 55 60
 Ile Val Tyr Ile Phe Phe Leu Tyr Leu Tyr Ser Ser Arg *
 65 70 75 77

<210> 813
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 813
 Met Gly Tyr Leu Leu Trp Leu Val Leu Ser Ile Leu Val Cys Thr Glu
 1 5 10 15
 Leu Gly Leu Gly Arg Leu Thr Phe Pro Leu Asp Ser Glu Ser Pro Arg
 20 25 30
 Thr Ser Tyr Lys Val Arg Pro Trp Val Val Leu Glu Ala Trp Val Trp
 35 40 45 48

*

<210> 814
 <211> 88
 <212> PRT
 <213> Homo sapiens

<400> 814
 Met Cys Leu Ser His Leu Val Ser Leu Phe Pro Ala Ala Thr Ala Phe
 1 5 10 15
 Leu Ile Asn Lys Val Pro Leu Pro Val Asp Lys Leu Ala Pro Leu Pro
 20 25 30
 Leu Asp Asn Ile Leu Pro Phe Met Asp Pro Leu Lys Leu Leu Leu Lys
 35 40 45
 Thr Leu Gly Ile Ser Val Glu His Leu Val Glu Gly Leu Arg Lys Cys
 50 55 60
 Val Asn Glu Leu Gly Pro Glu Ala Ser Glu Ala Val Lys Lys Leu Leu
 65 70 75 80
 Glu Ala Leu Ser His Leu Val *
 85 87

<210> 815
 <211> 237
 <212> PRT
 <213> Homo sapiens

<400> 815
 Met Ala Trp Ile Pro Leu Phe Leu Gly Val Leu Ala Tyr Cys Thr Gly
 1 5 10 15
 Ala Val Ala Ser Tyr Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser
 20 25 30
 Pro Gly Gln Thr Ala Ser Ile Thr Cys Ser Gly Asp Arg Leu Gly Asp
 35 40 45
 Lys Ile Ala Cys Trp Tyr Gln Leu Lys Pro Gly Gln Ser Pro Leu Val
 50 55 60
 Val Ile His Gln Asp Thr Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe
 65 70 75 80
 Ser Gly Ser Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr
 85 90 95
 Gln Ala Met Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Ser Ser
 100 105 110
 Ser Tyr Val Ala Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln
 115 120 125
 Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser Glu Glu
 130 135 140
 Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp Phe Tyr
 145 150 155 160
 Pro Gly Val Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro Val Lys
 165 170 175
 Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn Lys Tyr
 180 185 190
 Ala Val Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys Ser His
 195 200 205
 Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val Glu Lys
 210 215 220
 Thr Val Ala Pro Thr Glu Tyr Leu Leu Arg Val Tyr *
 225 230 235 236

<210> 816
 <211> 514

<212> PRT

<213> Homo sapiens

<400> 816

```

Met Pro Gly Leu Gly Arg Arg Ala Gln Trp Leu Cys Trp Trp Trp Gly
 1      5      10      15
Leu Leu Cys Ser Cys Cys Gly Pro Pro Pro Leu Arg Pro Pro Leu Pro
      20      25      30
Ala Ala Ala Ala Ala Ala Ala Gly Gly Gln Leu Leu Gly Asp Gly Gly
      35      40      45
Ser Pro Gly Arg Thr Glu Gln Pro Pro Pro Ser Pro Gln Ser Ser Ser
      50      55      60
Gly Phe Leu Tyr Arg Arg Leu Lys Thr Gln Glu Lys Arg Glu Met Gln
      65      70      75      80
Lys Glu Ile Leu Ser Val Leu Gly Leu Pro His Arg Pro Arg Pro Leu
      85      90      95
His Gly Leu Gln Gln Pro Gln Pro Pro Ala Leu Arg Gln Gln Glu Glu
      100      105      110
Gln Gln Gln Gln Gln Leu Pro Arg Gly Glu Pro Pro Pro Gly Arg
      115      120      125
Leu Lys Ser Ala Pro Leu Phe Met Leu Asp Leu Tyr Asn Ala Leu Ser
      130      135      140
Ala Asp Asn Asp Glu Asp Gly Ala Ser Glu Gly Glu Arg Gln Gln Ser
      145      150      155      160
Trp Pro His Glu Ala Ala Ser Ser Ser Gln Arg Arg Gln Pro Pro Pro
      165      170      175
Gly Ala Ala His Pro Leu Asn Arg Lys Ser Leu Leu Ala Pro Gly Ser
      180      185      190
Gly Ser Gly Gly Ala Ser Pro Leu Thr Ser Ala Gln Asp Ser Ala Phe
      195      200      205
Leu Asn Asp Ala Asp Met Val Met Ser Phe Val Asn Leu Val Glu Tyr
      210      215      220
Asp Lys Glu Phe Ser Pro Arg Gln Arg His His Lys Glu Phe Lys Phe
      225      230      235      240
Asn Leu Ser Gln Ile Pro Glu Gly Glu Val Val Thr Ala Ala Glu Phe
      245      250      255
Arg Ile Tyr Lys Asp Cys Val Met Gly Ser Phe Lys Asn Gln Thr Phe
      260      265      270
Leu Ile Ser Ile Tyr Gln Val Leu Gln Glu His Gln His Arg Asp Ser
      275      280      285
Asp Leu Phe Leu Leu Asp Thr Arg Val Val Trp Ala Ser Lys Glu Gly
      290      295      300
Trp Leu Glu Phe Asp Ile Thr Ala Thr Ser Asn Leu Trp Val Val Thr
      305      310      315      320
Pro Gln His Asn Met Gly Leu Gln Leu Ser Val Val Thr Arg Asp Gly
      325      330      335
Val His Val His Pro Arg Ala Ala Gly Leu Val Gly Arg Asp Gly Pro
      340      345      350
Tyr Asp Lys Gln Pro Phe Met Val Ala Phe Phe Lys Val Ser Glu Val
      355      360      365
His Val Arg Thr Thr Arg Ser Ala Ser Ser Arg Arg Arg Gln Gln Ser
      370      375      380
Arg Asn Arg Ser Thr Gln Ser Gln Asp Val Ala Arg Val Ser Ser Ala
      385      390      395      400
Ser Asp Tyr Asn Ser Ser Glu Leu Lys Thr Ala Cys Arg Lys His Glu
      405      410      415
Leu Tyr Val Ser Phe Gln Asp Leu Gly Trp Gln Asp Trp Ile Ile Ala
      420      425      430
Pro Lys Gly Tyr Ala Ala Asn Tyr Cys Asp Gly Glu Cys Ser Phe Pro
      435      440      445
Leu Asn Ala His Met Asn Ala Thr Asn His Ala Ile Val Gln Thr Leu
      450      455      460
Val His Leu Met Asn Pro Glu Tyr Val Pro Lys Pro Cys Cys Ala Pro

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465 470 475 480
 Thr Lys Leu Asn Ala Ile Ser Val Leu Tyr Phe Asp Asp Asn Ser Asn
 485 490 495
 Val Ile Leu Lys Lys Tyr Arg Asn Met Val Val Arg Ala Cys Gly Cys
 500 505 510
 His *
 513

<210> 817
 <211> 312
 <212> PRT
 <213> Homo sapiens

<400> 817
 Met Gly Cys Arg Leu Leu Cys Cys Ala Val Leu Cys Leu Leu Gly Ala
 1 5 10 15
 Val Pro Met Glu Thr Gly Val Thr Gln Thr Pro Arg His Leu Val Met
 20 25 30
 Gly Met Thr Asn Lys Lys Ser Leu Lys Cys Glu Gln His Leu Gly His
 35 40 45
 Asn Ala Met Tyr Trp Tyr Lys Gln Ser Ala Lys Lys Pro Leu Glu Leu
 50 55 60
 Met Phe Val Tyr Asn Phe Lys Glu Gln Thr Glu Asn Asn Ser Val Pro
 65 70 75 80
 Ser Arg Phe Ser Pro Glu Cys Pro Asn Ser Ser His Leu Phe Leu His
 85 90 95
 Leu His Thr Leu Gln Pro Glu Asp Ser Ala Leu Tyr Leu Cys Ala Ser
 100 105 110
 Ser Gln Val Gly Gly Tyr Asn Glu Gln Phe Phe Gly Pro Gly Thr Arg
 115 120 125
 Leu Thr Val Leu Glu Asp Leu Lys Asn Val Phe Pro Pro Glu Val Ala
 130 135 140
 Val Phe Glu Pro Ser Glu Ala Glu Ile Ser His Thr Gln Lys Ala Thr
 145 150 155 160
 Leu Val Cys Leu Ala Thr Gly Phe Tyr Pro Asp His Val Glu Leu Ser
 165 170 175
 Trp Trp Val Asn Gly Lys Glu Val His Ser Gly Val Ser Thr Asp Pro
 180 185 190
 Gln Pro Leu Lys Glu Gln Pro Ala Leu Asn Asp Ser Arg Tyr Cys Leu
 195 200 205
 Ser Ser Arg Leu Arg Val Ser Ala Thr Phe Trp Gln Asn Pro Arg Asn
 210 215 220
 His Phe Arg Cys Gln Val Gln Phe Tyr Gly Leu Ser Glu Asn Asp Glu
 225 230 235 240
 Trp Thr Gln Asp Arg Ala Lys Pro Val Thr Gln Ile Val Ser Ala Glu
 245 250 255
 Ala Trp Gly Arg Ala Asp Cys Gly Phe Thr Ser Glu Ser Tyr Gln Gln
 260 265 270
 Gly Val Leu Ser Ala Thr Ile Leu Tyr Glu Ile Leu Leu Gly Lys Ala
 275 280 285
 Thr Leu Tyr Ala Val Leu Val Ser Ala Leu Val Leu Met Ala Met Val
 290 295 300
 Lys Arg Lys Asp Ser Arg Gly *
 305 310 311

<210> 818
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 818
 Met Ala Leu Leu Cys Ile Cys Leu Cys Leu Ile Phe Phe Leu Ile Val
 1 5 10 15
 Lys Ala Arg Arg Lys Gln Ala Ala Gly Arg Pro Glu Lys Met Asp Asp
 20 25 30
 Glu Asp Pro Ile Met Gly Thr Ile Thr Ser Gly Ser Arg Lys Lys Pro
 35 40 45
 Trp Pro Asp Ser Pro Gly Asp Gln Ala Ser Pro Pro Gly Asp Ala Pro
 50 55 60
 Pro Leu Glu Glu Gln Lys Glu Leu His Tyr Ala Ser Leu Ser Phe Ser
 65 70 75 80
 Glu Met Lys Ser Arg Glu Pro Lys Asp Gln Glu Ala Pro Ser Thr Thr
 85 90 95
 Glu Tyr Ser Glu Ile Lys Thr Ser Lys *
 100 105

<210> 819
 <211> 75
 <212> PRT
 <213> Homo sapiens

<400> 819
 Met Val Val Gly Ile Val Ala Ala Ala Ala Leu Cys Ile Leu Ile Leu
 1 5 10 15
 Leu Tyr Ala Met Tyr Lys Tyr Arg Asn Arg Asp Glu Gly Ser Tyr Gln
 20 25 30
 Val Asp Glu Thr Arg Asn Tyr Ile Ser Asn Ser Ala Gln Ser Asn Gly
 35 40 45
 Thr Leu Met Lys Glu Lys Gln Gln Ser Ser Lys Ser Gly His Lys Lys
 50 55 60
 Gln Lys Asn Lys Asp Arg Glu Tyr Tyr Val *
 65 70 74

<210> 820
 <211> 75
 <212> PRT
 <213> Homo sapiens

<400> 820
 Met Val Val Gly Ile Val Ala Ala Ala Ala Leu Cys Ile Leu Ile Leu
 1 5 10 15
 Leu Tyr Ala Met Tyr Lys Tyr Arg Asn Arg Asp Glu Gly Ser Tyr Gln
 20 25 30
 Val Asp Glu Thr Arg Asn Tyr Ile Ser Asn Ser Ala Gln Ser Asn Gly
 35 40 45
 Thr Leu Met Lys Glu Lys Gln Gln Ser Ser Lys Ser Gly His Lys Lys
 50 55 60
 Gln Lys Asn Lys Asp Arg Glu Tyr Tyr Val *
 65 70 74

<210> 821
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 821

```

Met Gly Ser Leu Met Pro Leu Arg Pro Leu Ala Leu His Thr Ala Leu
 1              5              10              15
Gly Ala Ala Leu Asn Phe Ser Leu Pro Cys Glu Trp Ser Thr Leu Pro
      20              25              30
Ser Ala Ser Glu Ala Gly Arg Leu Trp Gly Pro Pro Ser Phe Gln *
      35              40              45              47

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<210> 822

<211> 459

<212> PRT

<213> Homo sapiens

<400> 822

```

Met Ala Trp Ala Ser Arg Leu Gly Leu Leu Leu Ala Leu Leu Leu Pro
 1              5              10              15
Val Val Gly Ala Ser Thr Pro Gly Thr Val Val Arg Leu Asn Lys Ala
      20              25              30
Ala Leu Ser Tyr Val Ser Glu Ile Gly Lys Ala Pro Leu Gln Arg Ala
      35              40              45
Leu Gln Val Thr Val Pro His Phe Leu Asp Trp Ser Gly Glu Ala Leu
      50              55              60
Gln Pro Thr Arg Ile Arg Ile Leu Asn Val His Val Pro Arg Leu His
      65              70              75              80
Leu Lys Phe Ile Ala Gly Phe Gly Val Arg Leu Leu Ala Ala Ala Asn
      85              90              95
Phe Thr Phe Lys Val Phe Arg Ala Pro Glu Pro Leu Glu Leu Thr Leu
      100             105             110
Pro Val Glu Leu Leu Ala Asp Thr Arg Val Thr Gln Ser Ser Ile Arg
      115             120             125
Thr Pro Val Val Ser Ile Ser Ala Cys Ser Leu Phe Ser Gly His Ala
      130             135             140
Asn Glu Phe Asp Gly Ser Asn Ser Thr Ser His Ala Leu Leu Val Leu
      145             150             155             160
Val Gln Lys His Ile Lys Ala Val Leu Ser Asn Lys Leu Cys Leu Ser
      165             170             175
Ile Ser Asn Leu Val Gln Gly Val Asn Val His Leu Gly Thr Leu Ile
      180             185             190
Gly Leu Asn Pro Val Gly Pro Glu Ser Gln Ile Arg Tyr Ser Met Val
      195             200             205
Ser Val Pro Thr Val Thr Ser Asp Tyr Ile Ser Leu Glu Val Asn Ala
      210             215             220
Val Leu Phe Leu Leu Gly Lys Pro Ile Ile Leu Pro Thr Asp Ala Thr
      225             230             235             240
Pro Phe Val Leu Pro Arg His Val Gly Thr Glu Gly Ser Met Ala Thr
      245             250             255
Val Gly Leu Ser Gln Gln Leu Phe Asp Ser Ala Leu Leu Leu Leu Gln
      260             265             270
Lys Ala Gly Ala Leu Asn Leu Asp Ile Thr Gly Gln Leu Arg Ser Asp
      275             280             285
Asp Asn Leu Leu Asn Thr Ser Ala Leu Gly Arg Leu Ile Pro Glu Val
      290             295             300
Ala Arg Gln Phe Pro Glu Pro Met Pro Val Val Leu Lys Val Arg Leu
      305             310             315             320
Gly Ala Thr Pro Val Ala Met Leu His Thr Asn Asn Ala Thr Leu Arg
      325             330             335
Leu Gln Pro Phe Val Glu Val Leu Ala Thr Ala Ser Asn Ser Ala Phe
      340             345             350
Gln Ser Leu Phe Ser Leu Asp Val Val Val Asn Leu Arg Leu Gln Leu

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          355          360          365
Ser Val Ser Lys Val Lys Leu Gln Gly Thr Thr Ser Val Leu Gly Asp
      370          375          380
Val Gln Leu Thr Val Ala Ser Ser Asn Val Gly Phe Ile Asp Thr Asp
385          390          395          400
Gln Val Arg Thr Leu Met Gly Thr Val Phe Glu Lys Pro Leu Leu Asp
          405          410          415
His Leu Asn Ala Leu Leu Ala Met Gly Ile Ala Leu Pro Gly Val Val
          420          425          430
Asn Leu His Tyr Val Ala Pro Glu Ile Phe Val Tyr Glu Gly Tyr Val
          435          440          445
Val Ile Ser Ser Gly Leu Phe Tyr Gln Ser *
      450          455          458

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<210> 823
 <211> 67
 <212> PRT
 <213> Homo sapiens

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          <400> 823
Met Lys Leu Val Leu Leu Arg Lys Thr Ser Leu Ser Val Phe Thr Thr
  1          5          10          15
Leu Phe Ser Val Ser Ser Ser Gln Tyr Pro Val Leu Ser Thr Ser Ile
          20          25          30
Cys Asn Thr Pro Val Phe Ser Thr Leu Phe Leu Glu Ala Cys Ser Val
          35          40          45
Asn Pro Leu Pro Ser Thr Val Phe Leu Val Leu Leu Tyr Ser Val Ala
          50          55          60
Cys Leu *
65 66

```

<210> 824
 <211> 169
 <212> PRT
 <213> Homo sapiens

```

          <400> 824
Met Ile Phe Val Leu Gly Gln Ala Glu Gly Ile Leu Ile Met Leu Ala
  1          5          10          15
Met Thr Ala Leu Thr Val Arg Arg Ser Glu Pro Ser Leu Ser Thr Cys
          20          25          30
Gln Gln Gly Glu Asp Pro Leu Asp Trp Thr Val Ser Leu Leu Met
          35          40          45
Ala Gly Leu Cys Thr Phe Phe Ser Cys Ile Leu Ala Val Phe Phe His
          50          55          60
Thr Pro Tyr Arg Arg Leu Gln Ala Glu Ser Gly Glu Pro Pro Ser Thr
          65          70          75          80
Arg Asn Ala Val Gly Ser Gln Thr Gln Gly Arg Val Trp Thr Glu Gly
          85          90          95
Glu Ala Arg Lys Gly Leu Gly Ser Trp Gly Pro Ala Arg Arg Ile Pro
          100          105          110
Glu Leu His Gly Glu Gly Gly Ala Ser Leu Arg Gly Pro Gln Glu Gly
          115          120          125
His Gly Ser Pro His Pro Ala Cys His Arg Ala Thr Pro Arg Ala Gln
          130          135          140
Gly Pro Ala Ala Thr Asp Ala Pro Phe Pro Pro Gly Gln Thr Arg Arg
          145          150          155          160
Gln Gly Pro Ser Val Gln Val Tyr *

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165

168

<210> 825
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 825
 Met Leu Leu Ala Lys Arg Tyr Ala Lys Tyr Phe Ile Tyr Phe Ile Phe
 1 5 10 15
 Phe Asn Pro Val Leu Ile Pro Ile Leu Gln Arg Arg Ile Leu Arg Leu
 20 25 30
 Gly Glu Ile His Ile Ala Gly Gln Cys Arg Ala Gly Ser Leu Gln Ser
 35 40 45
 Leu Pro Leu Pro Ala Asn Leu His Ser Ile Leu Asp Ile Leu Ala *
 50 55 60 63

<210> 826
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 826
 Met Leu Leu Cys Leu His Leu Ile Ile Ile Cys Leu Val Phe Cys Ile
 1 5 10 15
 Ile Ser Ala Ile Pro Trp Val Leu Asn Gln Cys Leu Ile Phe Arg Leu
 20 25 30
 Tyr Phe Leu Cys Gln Lys Lys Leu Ala Met Ser Leu Glu Asn *
 35 40 45 46

<210> 827
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 827
 Met Leu Ile Gly Ser Gly Tyr Leu Cys Phe Cys Ala Leu Gln Trp Thr
 1 5 10 15
 Glu Leu Gly Asn Val Cys Val Cys Ala His Ile Cys Arg Cys Thr His
 20 25 30
 Met Gln Val Ser Gly Ile Thr Ser Pro Val His Val His Ile His Arg
 35 40 45
 Val Leu Ser Cys Leu Ile His Phe Thr Ser *
 50 55 58

<210> 828
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 828
 Met His Leu Leu Val Ser His Ala Phe Leu Pro Phe Pro Leu His Gly

1	5	10	15
Tyr Ser Gly Arg Gln Arg Gly Ala Lys Gln Trp Arg Cys His Pro Ala			
20	25	30	
Arg Ala Ser Arg Glu Arg Pro Ser Glu Asp Asn Leu Ser Pro Ala Val			
35	40	45	
Lys Glu Glu Ser Gly Phe Val Val Ser Glu His Leu Ala Ala Leu His			
50	55	60	
Arg Lys Leu Arg Gly Cys His *			
65	70	71	

<210> 829
 <211> 312
 <212> PRT
 <213> Homo sapiens

<400> 829
Met Leu Leu Leu Leu Leu Leu Leu Gly Leu Ala Gly Ser Gly Leu Gly
1 5 10 15
Ala Val Val Ser Gln His Pro Ser Trp Val Ile Cys Lys Ser Gly Thr
20 25 30
Ser Val Lys Ile Glu Cys Arg Ser Leu Asp Phe Gln Ala Thr Thr Met
35 40 45
Phe Trp Tyr Arg Gln Phe Pro Lys Gln Ser Leu Met Leu Met Ala Thr
50 55 60
Ser Asn Glu Gly Ser Lys Ala Thr Tyr Glu Gln Gly Val Glu Lys Asp
65 70 75 80
Lys Phe Leu Ile Asn His Ala Ser Leu Thr Leu Ser Thr Leu Thr Val
85 90 95
Thr Ser Ala His Pro Glu Asp Ser Ser Phe Tyr Ile Cys Ser Ala Gly
100 105 110
Ala Asp Ser Gly Thr Gln Glu Thr Gln Tyr Phe Gly Pro Gly Thr Arg
115 120 125
Leu Thr Val Leu Glu Asp Leu Lys Asn Val Phe Pro Pro Glu Val Ala
130 135 140
Val Phe Glu Pro Ser Glu Ala Glu Ile Ser His Thr Gln Lys Ala Thr
145 150 155 160
Leu Val Cys Leu Ala Thr Gly Phe Tyr Pro Asp His Val Glu Leu Ser
165 170 175
Trp Trp Val Asn Gly Lys Glu Val His Ser Gly Val Ser Thr Asp Pro
180 185 190
Gln Pro Leu Lys Glu Gln Pro Ala Leu Asn Asp Ser Arg Tyr Cys Leu
195 200 205
Ser Ser Arg Leu Arg Val Ser Ala Thr Phe Trp Gln Asn Pro Arg Asn
210 215 220
His Phe Arg Cys Gln Val Gln Phe Tyr Gly Leu Ser Glu Asn Asp Glu
225 230 235 240
Trp Thr Gln Asp Arg Ala Lys Pro Val Thr Gln Ile Val Ser Ala Glu
245 250 255
Ala Trp Gly Arg Ala Asp Cys Gly Phe Thr Ser Glu Ser Tyr Gln Gln
260 265 270
Gly Val Leu Ser Ala Thr Ile Leu Tyr Glu Ile Leu Leu Gly Lys Ala
275 280 285
Thr Leu Tyr Ala Val Leu Val Ser Ala Leu Val Leu Met Ala Met Val
290 295 300
Lys Arg Lys Asp Ser Arg Gly *
305 310 311

<210> 830
 <211> 53

<212> PRT

<213> Homo sapiens

<400> 830

```

Met Ser Val Gly Leu His Leu Gly Phe Leu Ala Trp Phe Leu Pro Phe
 1           5           10           15
Leu Ile Pro Thr Ser Pro Leu Pro Leu Leu Phe Gln Leu Gly Ala Leu
           20           25           30
Pro Asn Glu Ser Leu Ala Leu Tyr Ala Trp Leu Arg Asp Cys Phe Trp
           35           40           45
Glu Asn Ile Thr *
           50           52

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<210> 831

<211> 67

<212> PRT

<213> Homo sapiens

<400> 831

```

Met Ser Ser Pro Cys Phe Gln Cys Phe His Leu Cys Cys Thr Ile Lys
 1           5           10           15
Val Trp Pro Leu Cys His His Leu Gln Lys Ala Phe Pro Asp Phe Ser
           20           25           30
Ile His Val Phe Ser Glu Ser Asp Leu Ser Ser Phe Cys Glu Val Gln
           35           40           45
Leu Leu Lys Ile Cys Leu Gln Lys Tyr Phe Leu Gly Ser Leu Met His
           50           55           60
Cys Ser *
           65           66

```

<210> 832

<211> 64

<212> PRT

<213> Homo sapiens

<400> 832

```

Met Ile Lys Leu Cys His Gln Leu Tyr Asn Val Tyr Val Cys Phe Phe
 1           5           10           15
His Leu Ile Val Leu Gly Asp Ile Ala Ile Asp Tyr Ile Ile Val Pro
           20           25           30
Asn Ile Ser Tyr Leu Ser Ile Ser Ile Pro Phe Val Val Thr Asn Ile
           35           40           45
Arg Gly Arg Asp Ile Phe His Pro Cys Asn Val Ala Leu Val Met *
           50           55           60           63

```

<210> 833

<211> 47

<212> PRT

<213> Homo sapiens

<400> 833

```

Met Phe Tyr Glu Asn Lys Arg Arg Glu Tyr Leu Gln Asp Met Leu Leu
 1           5           10           15
Ser Tyr Arg Leu Leu Val Ala Ile Leu Val Leu Leu Lys Lys Leu Thr

```

20 25 30
 Glu Leu Asn Thr Ile Thr Leu Ile Cys Lys Ser Ile Ile Phe *
 35 40 45 46

<210> 834
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 834
 Met Asn Ile Val Phe Val Ile Leu Leu Phe Lys Asp Met Gln Val Leu
 1 5 10 15
 Glu Val Phe Val Leu Leu Asn Val Leu Thr Thr Leu Thr Ile Ile Ala
 20 25 30
 Ala Gly Ile Leu Cys Thr Ser Phe Cys Cys Lys Pro Phe Ile Tyr Ile
 35 40 45
 Asn Pro Leu *
 50 51

<210> 835
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 835
 Met Ile Arg Phe Ala Leu Pro Trp Phe Ser Gln Ile Trp Leu Ser Lys
 1 5 10 15
 Gln Thr Trp Thr Arg Leu Thr His Leu Ala Phe Leu Leu Gln Glu Cys
 20 25 30
 Asn Ser Met Phe Tyr Pro Lys Val Ser Arg Thr Thr Val Phe Gly Cys
 35 40 45
 Leu Phe Asn Pro Leu Ser Ser Arg Val Cys Phe Glu *
 50 55 60

<210> 836
 <211> 89
 <212> PRT
 <213> Homo sapiens

<400> 836
 Met Thr Asn Phe Phe His Leu Leu Leu Pro Leu Leu Pro Ser Leu Phe
 1 5 10 15
 Ser Pro Ser Ser Lys Thr His Ser Phe Asn Ile His Lys Ile Ile Ile
 20 25 30
 Ile Ile Leu Phe Phe Asn Ser Ile Phe Leu Tyr Pro Arg Asp Tyr Leu
 35 40 45
 Lys Ile Arg Asn Trp Leu Gln Ser Asn Thr Leu Glu Arg Glu Ile Glu
 50 55 60
 Trp Ile Thr Ser Ile Arg Cys Leu Cys Asn Ser Gly Thr Thr Phe Ile
 65 70 75 80
 Phe Pro Leu Thr Thr Lys Ser Thr *
 85 88

<210> 837
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 837
 Met Leu Tyr Leu Leu Leu Phe Pro Gly Val Ser Tyr Leu Arg Ser Leu
 1 5 10 15
 Phe Leu Gly Arg Pro Ile Gly Pro Gly Ile Thr Ser Asp Phe Thr Leu
 20 25 30
 Ile Leu Phe Ser Asn Leu Leu Asp Ser Trp Pro Leu Ser *
 35 40 45

<210> 838
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 838
 Met Pro Cys Ser Val Pro Glu Thr Leu Phe Ser Leu Leu Trp Leu Ala
 1 5 10 15
 Pro Ser His His Ser Gly Phe Ser Ser Asn Glu Ala Ser Leu Arg Thr
 20 25 30
 Asp Leu Leu Phe Ala Thr Ala Ile Leu Tyr Ser Leu Trp His Pro Pro
 35 40 45
 Tyr Tyr Phe Leu Tyr Asn Thr Ser *
 50 55 56

<210> 839
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 839
 Met Leu Phe Thr Ser Phe Val Tyr Gly Leu Ile Phe Ile Leu Phe Asp
 1 5 10 15
 Phe Tyr Phe Leu Ser Phe Val Glu Arg Asp Val Lys Ile Phe Asn Cys
 20 25 30
 Asn Gly Glu Ile Val Leu Phe Pro Phe Asn Ser Val His Phe Cys Leu
 35 40 45
 Ile Cys Leu Tyr Ile His Ile *
 50 55

<210> 840
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 840
 Met Ile Leu Asn Leu Ser Ser Leu Thr Leu Val Phe Ala Trp Asn Tyr
 1 5 10 15
 Pro Leu His Leu Met Ile Ser Leu Asn Val Ser Cys Ser Cys Tyr Ser
 20 25 30
 Asp Asp Ile Ser Gly Ile Tyr Arg Ser Val Leu Arg Gln Lys Leu Gly

35 40 45 48
*

<210> 841
<211> 72
<212> PRT
<213> Homo sapiens

<400> 841
Met Cys Leu Ile Leu Val Ile Trp Lys Ile His Tyr Ala Glu Leu Ile
1 5 10 15
Met Leu Asn Lys Arg Val Val Asn Lys Cys Arg Ser Cys Leu Ile Gln
20 25 30
Lys Cys Leu Ser Thr Cys His Ser Thr Val Ile Val Leu Tyr Gln Cys
35 40 45
Arg Glu Glu Glu Ala Val Met Leu Ile Lys Leu Asn Phe Lys Met Lys
50 55 60
Ile Gln Arg Thr Ile Cys Ile *
65 70 71

<210> 842
<211> 80
<212> PRT
<213> Homo sapiens

<400> 842
Met Asn Leu Lys Arg Leu Leu Leu Phe Leu Ala Lys Met Phe Ser Ala
1 5 10 15
Ile Phe Ser Leu Pro Thr His Pro Ser His Phe Pro Ile Ser Ile Tyr
20 25 30
Asp Asn Ile Gly His Trp Pro Gln Ser Pro Lys Val Arg Arg Lys Glu
35 40 45
Gly Asn Glu Tyr Leu Leu Asn Pro Asn Met Cys Gln Thr Leu Asp Leu
50 55 60
Thr Leu Leu Gly Ile Gly Asp Tyr Leu Thr Ser Ile Thr Ser Pro *
65 70 75 79

<210> 843
<211> 91
<212> PRT
<213> Homo sapiens

<400> 843
Met Ala Pro Leu Pro Ser Leu Thr Leu Arg Pro Trp Cys Val Leu Met
1 5 10 15
Leu Leu Asp Leu Trp Ala Ala Phe Gly Thr Ile Thr Pro Ser Leu Lys
20 25 30
His Phe His His Leu Pro Ser Gly Thr Gln His Ser Leu Val Phe Val
35 40 45
Leu Ser Leu Thr Leu His Ser Gln Leu Ser Leu Leu Met Gly Thr Ser
50 55 60
Ala Val Cys Leu Ser Ala Cys Phe Ser Ser Leu Ser Thr Phe Pro Gly
65 70 75 80
Trp Leu Leu Ile Ile Cys Thr Leu Met Ile *

85

90

<210> 844
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 844
 Met Phe Leu Leu Asp Leu Cys Leu Gly Ser Leu Ser Val Phe Ile Asp
 1 5 10 15
 Thr His Pro Cys Met His Gly Gly Phe Lys Cys Ser Gln Asp Trp Cys
 20 25 30
 Ser Pro Ala Lys Leu Leu Leu Ser Ala Phe Thr Lys Thr Arg *
 35 40 45 46

<210> 845
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 845
 Met Leu Ser Leu Val Lys Leu Leu Leu Leu Cys Ile Ile His Asp His
 1 5 10 15
 Ser Ile Asn Phe Cys Ile Ala Ile Gln Val Gly Leu Leu Pro Ser Ala
 20 25 30
 Tyr Arg Val Pro Gly Ile Val Leu Ser Leu Glu Asn Thr Ala Leu Ile
 35 40 45
 Arg Gln Thr Pro Cys Ser Asn Arg Ala Asn *
 50 55 58

<210> 846
 <211> 236
 <212> PRT
 <213> Homo sapiens

<400> 846
 Met Arg Pro Leu Ala Gly Gly Leu Leu Lys Val Val Phe Val Val Phe
 1 5 10 15
 Ala Ser Leu Cys Ala Trp Tyr Ser Gly Tyr Leu Leu Ala Glu Leu Ile
 20 25 30
 Pro Asp Ala Pro Leu Ser Ser Ala Ala Tyr Ser Ile Arg Ser Ile Gly
 35 40 45
 Glu Arg Pro Val Leu Lys Ala Pro Val Pro Lys Arg Gln Lys Cys Asp
 50 55 60
 His Trp Thr Pro Cys Pro Ser Asp Thr Tyr Ala Tyr Arg Leu Leu Ser
 65 70 75 80
 Gly Gly Gly Arg Ser Lys Tyr Ala Lys Ile Cys Phe Glu Asp Asn Leu
 85 90 95
 Leu Met Gly Glu Gln Leu Gly Asn Val Ala Arg Gly Ile Asn Ile Ala
 100 105 110
 Ile Val Asn Tyr Val Thr Gly Asn Val Thr Ala Thr Arg Cys Phe Asp
 115 120 125
 Met Tyr Glu Gly Asp Asn Ser Gly Pro Met Thr Lys Phe Ile Gln Ser
 130 135 140
 Ala Ala Pro Lys Ser Leu Leu Phe Met Val Thr Tyr Asp Asp Gly Ser

```

145          150          155          160
Thr Arg Leu Asn Asn Asp Ala Lys Asn Ala Ile Glu Ala Leu Gly Ser
          165          170          175
Lys Glu Ile Arg Asn Met Lys Phe Arg Ser Ser Trp Val Phe Ile Ala
          180          185          190
Ala Lys Gly Leu Glu Leu Pro Ser Glu Ile Gln Arg Glu Lys Ile Asn
          195          200          205
His Ser Asp Ala Lys Asn Asn Arg Tyr Ser Gly Trp Pro Ala Glu Ile
          210          215          220
Gln Ile Glu Gly Cys Ile Pro Lys Glu Arg Ser *
225          230          235

```

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<210> 847
<211> 66
<212> PRT
<213> Homo sapiens

```

```

<400> 847
Met Leu Pro Phe Cys His Leu Trp Val Pro Val Thr Leu Val Ala Ala
 1          5          10          15
Gly Ala Ala Gln Pro Ala Ala Ser Met Val Met Phe Pro His Leu Pro
          20          25          30
Ala Leu His His His Cys Pro His Ser His Arg Thr Ser Gln Tyr Met
          35          40          45
Pro Ala Ser Asp Gly Pro Gln Ala Tyr Pro Asp Tyr Ala Asp Gln Ser
          50          55          60
Thr *
65

```

```

<210> 848
<211> 69
<212> PRT
<213> Homo sapiens

```

```

<400> 848
Met Asn Pro Cys Phe Cys Gly Phe Leu Val Leu Leu Ser Cys Cys Leu
 1          5          10          15
Ser Leu Leu Asp Ser Gln Leu His Asn Leu Ile Ala Leu Gln Ile Thr
          20          25          30
Cys Phe Lys Asp Val Glu Ile Pro Asn Phe Phe Cys Asp Pro Ser Gln
          35          40          45
Leu Pro His His Ala Cys Cys Asp Thr Phe Thr Asn Asn Ile Val Met
          50          55          60
Tyr Phe Pro Ala Ala
65          69

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```

<210> 849
<211> 407
<212> PRT
<213> Homo sapiens

```

```

<400> 849
Met Leu Leu Leu Leu Leu Leu Pro Leu Leu Trp Gly Thr Lys Gly
 1          5          10          15
Met Glu Gly Asp Arg Gln Tyr Gly Asp Gly Tyr Leu Leu Gln Val Gln

```

20 25 30
 Glu Leu Val Thr Val Gln Glu Gly Leu Cys Val His Val Pro Cys Ser
 35 40 45
 Phe Ser Tyr Pro Gln Asp Gly Trp Thr Asp Ser Asp Pro Val His Gly
 50 55 60
 Tyr Trp Phe Arg Ala Gly Asp Arg Pro Tyr Gln Asp Ala Pro Val Ala
 65 70 75 80
 Thr Asn Asn Pro Asp Arg Glu Val Gln Ala Glu Thr Gln Gly Arg Phe
 85 90 95
 Gln Leu Leu Gly Asp Ile Trp Ser Asn Asp Cys Ser Leu Ser Ile Arg
 100 105 110
 Asp Ala Arg Lys Arg Asp Lys Gly Ser Tyr Phe Phe Arg Leu Glu Arg
 115 120 125
 Gly Ser Met Lys Trp Ser Tyr Lys Ser Gln Leu Asn Tyr Lys Thr Lys
 130 135 140
 Gln Leu Ser Val Phe Val Thr Asp Pro Pro Trp Asn Leu Thr Met Thr
 145 150 155 160
 Val Phe Gln Gly Asp Ala Thr Ala Ser Thr Ala Leu Gly Asn Gly Ser
 165 170 175
 Ser Leu Ser Val Leu Glu Gly Gln Ser Leu Arg Leu Val Cys Ala Val
 180 185 190
 Asn Ser Asn Pro Pro Ala Arg Leu Ser Trp Thr Arg Gly Ser Leu Thr
 195 200 205
 Leu Cys Pro Ser Arg Ser Ser Asn Pro Gly Leu Leu Glu Leu Pro Arg
 210 215 220
 Val His Val Arg Asp Glu Gly Glu Phe Thr Cys Arg Ala Gln Asn Ala
 225 230 235 240
 Gln Gly Ser Gln His Ile Ser Leu Ser Leu Ser Leu Gln Asn Glu Gly
 245 250 255
 Thr Gly Thr Ser Arg Pro Val Ser Gln Val Thr Leu Ala Ala Val Gly
 260 265 270
 Gly Ala Gly Ala Thr Ala Leu Ala Phe Leu Ser Phe Cys Ile Ile Phe
 275 280 285
 Ile Ile Val Arg Ser Cys Arg Lys Lys Ser Ala Arg Pro Ala Ala Gly
 290 295 300
 Val Gly Asp Thr Gly Met Glu Asp Ala Lys Ala Ile Arg Gly Ser Ala
 305 310 315 320
 Ser Gln Gly Pro Leu Thr Glu Ser Trp Lys Asp Gly Asn Pro Leu Lys
 325 330 335
 Lys Pro Pro Pro Ala Val Ala Pro Ser Gly Glu Glu Gly Glu Leu
 340 345 350
 His Tyr Ala Thr Leu Ser Phe His Lys Val Lys Pro Gln Asp Pro Gln
 355 360 365
 Gly Gln Glu Ala Thr Asp Ser Glu Tyr Ser Glu Ile Lys Ile His Lys
 370 375 380
 Arg Glu Thr Ala Glu Thr Gln Ala Cys Leu Arg Asn His Asn Pro Ser
 385 390 395 400
 Ser Lys Glu Val Arg Gly *
 405 406

<210> 850

<211> 73

<212> PRT

<213> Homo sapiens

<400> 850

Met Tyr Tyr Thr Leu Cys Asn Phe Val Phe Phe Thr Leu His Met Ile
 1 5 10 15
 Leu Phe Pro Lys Ser Leu Asn Ile Leu Leu Ser Asn Gln Ile Arg Ser
 20 25 30
 Ala Ile Val His Leu Lys Gln Arg Thr Ser Cys Ile Lys Asn Gln Pro


```

      35              40              45
Glu Pro Tyr Gln Arg Ala Asp Ala Met Asn Thr Asn His Ser Leu Val
      50              55              60
Ala Val Pro Tyr Val Asn Leu Ile *
      65              70              72

```

<210> 851
 <211> 74
 <212> PRT
 <213> Homo sapiens

```

      <400> 851
Met Phe Trp Met Val Lys Ile Leu Thr Pro Lys Ala Ser Thr Phe Gln
  1              5              10              15
Val Thr Thr Ser Val Ser Val Pro Leu Thr Ser Ala Thr Gly Ala Ala
      20              25              30
Cys Ser Gly Ser Cys Phe His Ser Thr Gly Cys Ala Gly Arg Pro Gln
      35              40              45
Thr His Ala Gly Ala Pro Cys Ala Ser Glu Gln Asn Ser Arg Asn Glu
      50              55              60
Val Met Gln Thr Ser Thr Asn Glu Met *
      65              70              73

```

<210> 852
 <211> 93
 <212> PRT
 <213> Homo sapiens

```

      <400> 852
Met His Cys Arg Gln Leu Lys Glu Val Leu Gln Leu Pro Leu Thr Cys
  1              5              10              15
Ser Ser Cys Cys Val Cys Thr Met Thr Val Ala Phe Pro Ser Val Gln
      20              25              30
Gln Val Trp Met Glu Thr Val Leu Thr Leu Gly Gly Leu Asp Ala Ala
      35              40              45
Gln Asp Glu Ile Gln Ala Val Arg Leu Ile Leu Leu Pro Glu Ser Ser
      50              55              60
Pro Gln Gly Pro His Gly Asn Leu Ala Pro Cys Ser Ala Lys Pro Phe
      65              70              75              80
Phe Leu Pro Gln Val Met Pro Leu Gly Thr Ala Pro *
      85              90              92

```

<210> 853
 <211> 267
 <212> PRT
 <213> Homo sapiens

```

      <400> 853
Met Val Cys Leu Arg Leu Pro Gly Gly Ser Cys Met Ala Val Leu Thr
  1              5              10              15
Val Thr Leu Met Val Leu Ser Ser Pro Leu Ala Leu Ala Gly Asp Thr
      20              25              30
Arg Pro Arg Phe Leu Glu Tyr Ser Thr Ser Glu Cys His Phe Phe Asn
      35              40              45
Gly Thr Glu Arg Val Arg Phe Leu Asp Arg Tyr Phe Tyr Asn Gln Glu

```

```

      50              55              60
Glu Tyr Val Arg Phe Asp Ser Asp Val Gly Glu Phe Arg Ala Val Thr
 65              70              75              80
Glu Leu Gly Arg Pro Asp Glu Glu Tyr Trp Asn Ser Gln Lys Asp Phe
      85              90              95
Leu Glu Asp Arg Arg Ala Ala Val Asp Thr Tyr Cys Arg His Asn Tyr
      100              105              110
Gly Val Val Glu Ser Phe Thr Val Gln Arg Arg Val His Pro Lys Val
      115              120              125
Thr Val Tyr Pro Ser Lys Thr Gln Pro Leu Gln His His Asn Leu Leu
      130              135              140
Val Cys Ser Val Ser Gly Phe Tyr Pro Gly Ser Ile Glu Val Arg Trp
145              150              155              160
Phe Arg Asn Gly Gln Glu Glu Lys Thr Gly Val Val Ser Thr Gly Leu
      165              170              175
Ile His Asn Gly Asp Trp Thr Phe Gln Thr Leu Val Met Leu Glu Thr
      180              185              190
Val Pro Arg Ser Gly Glu Val Tyr Thr Cys Gln Val Glu His Pro Ser
      195              200              205
Val Thr Ser Pro Leu Thr Val Glu Trp Arg Ala Arg Ser Glu Ser Ala
      210              215              220
Gln Ser Lys Met Leu Ser Gly Val Gly Gly Phe Val Leu Gly Leu Leu
225              230              235              240
Phe Leu Gly Ala Gly Leu Phe Ile Tyr Phe Arg Asn Gln Lys Gly His
      245              250              255
Ser Gly Leu Gln Pro Arg Gly Phe Leu Ser *
      260              265 266

```

<210> 854
 <211> 327
 <212> PRT
 <213> Homo sapiens

```

      <400> 854
Met Met Ser Pro Ser Gln Ala Ser Leu Leu Phe Leu Asn Val Cys Ile
 1              5              10              15
Phe Ile Cys Gly Glu Val Val Gln Gly Asn Cys Val His His Ser Thr
      20              25              30
Asp Ser Ser Val Val Asn Ile Val Glu Asp Gly Ser Asn Ala Lys Asp
      35              40              45
Glu Ser Lys Ser Asn Asp Thr Val Cys Lys Glu Asp Cys Glu Glu Ser
      50              55              60
Cys Asp Val Lys Thr Lys Ile Thr Arg Glu Glu Lys His Phe Met Cys
      65              70              75              80
Arg Asn Leu Gln Asn Ser Ile Val Ser Tyr Thr Arg Ser Thr Lys Lys
      85              90              95
Leu Leu Arg Asn Met Met Asp Glu Gln Gln Ala Ser Leu Asp Tyr Leu
      100              105              110
Ser Asn Gln Val Asn Glu Leu Met Asn Arg Val Leu Leu Leu Thr Thr
      115              120              125
Glu Val Phe Arg Lys Gln Leu Asp Pro Phe Pro His Arg Pro Val Gln
      130              135              140
Ser His Gly Leu Asp Cys Thr Asp Ile Lys Asp Thr Ile Gly Ser Val
145              150              155              160
Thr Lys Thr Pro Ser Gly Leu Tyr Ile Ile His Pro Glu Gly Ser Ser
      165              170              175
Tyr Pro Phe Glu Val Met Cys Asp Met Asp Tyr Arg Gly Gly Gly Trp
      180              185              190
Thr Val Ile Gln Lys Arg Ile Asp Gly Ile Ile Asp Phe Gln Arg Leu
      195              200              205
Trp Cys Asp Tyr Leu Asp Gly Phe Gly Asp Leu Leu Gly Asp Ala Phe

```

```

      210              215              220
Arg Gly Leu Lys Lys Glu Asp Asn Gln Asn Ala Met Pro Phe Ser Thr
225              230              235              240
Ser Asp Val Asp Asn Asp Gly Cys Arg Pro Ala Cys Leu Val Asn Gly
      245              250              255
Gln Ser Val Lys Ser Cys Ser His Leu His Asn Lys Thr Gly Trp Trp
      260              265              270
Phe Asn Glu Cys Gly Leu Ala Asn Leu Asn Gly Ile His His Phe Ser
      275              280              285
Gly Lys Leu Leu Ala Thr Gly Ile Gln Trp Gly Thr Trp Thr Lys Asn
      290              295              300
Asn Ser Pro Val Lys Ile Lys Ser Val Ser Met Lys Ile Arg Arg Met
305              310              315              320
Tyr Asn Pro Tyr Phe Lys *
      325 326

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<210> 855
<211> 71
<212> PRT
<213> Homo sapiens

```

```

      <400> 855
Met Arg Thr Trp Ser Lys Val Ile Pro Ser Leu Trp Leu Lys Phe Ser
 1              5              10              15
Arg Gly Phe Ile Ile Leu Arg Phe His Phe Leu Met Ile Ile Trp Pro
      20              25              30
Asp Ile Pro Ser Ser Met Tyr Ile Cys Met Ser Phe Ile Thr Ala Phe
      35              40              45
Lys Asn Leu Phe Met Phe Gly Ile Asn Arg Ile Lys Lys Ile Ser Val
      50              55              60
Val Ser Arg Asn Thr Leu *
65              70

```

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<210> 856
<211> 290
<212> PRT
<213> Homo sapiens

```

```

      <400> 856
Met Gly Leu Cys Val Pro Phe Ala Val Thr Thr Ser Phe Leu Ser Leu
 1              5              10              15
Gly Leu Glu Trp Asp Leu Asn Val Arg Leu His Gly Gln His Leu Val
      20              25              30
Gln Gln Leu Val Leu Arg Thr Val Arg Gly Tyr Leu Glu Thr Pro Gln
      35              40              45
Pro Glu Lys Ala Leu Ala Leu Ser Phe His Gly Trp Ser Gly Thr Gly
      50              55              60
Lys Asn Phe Val Ala Arg Met Leu Val Glu Asn Leu Tyr Arg Asp Gly
65              70              75              80
Leu Met Ser Asp Cys Val Arg Met Phe Ile Ala Thr Phe His Phe Pro
      85              90              95
His Pro Lys Tyr Val Asp Leu Tyr Lys Glu Gln Leu Met Ser Gln Ile
      100              105              110
Arg Glu Thr Gln Gln Leu Cys His Gln Thr Leu Phe Ile Phe Asp Glu
      115              120              125
Ala Glu Lys Leu His Pro Gly Leu Leu Glu Val Leu Gly Pro His Leu
      130              135              140
Glu Arg Arg Ala Pro Glu Gly His Arg Ala Glu Ser Pro Trp Thr Ile

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145          150          155          160
Phe Leu Phe Leu Ser Asn Leu Arg Gly Asp Ile Ile Asn Glu Val Val
          165          170          175
Leu Lys Leu Leu Lys Ala Gly Trp Ser Arg Glu Glu Ile Thr Met Glu
          180          185          190
His Leu Glu Pro His Leu Gln Ala Glu Ile Val Glu Thr Ile Asp Asn
          195          200          205
Gly Phe Gly His Ser Arg Leu Val Lys Glu Asn Leu Ile Asp Tyr Phe
          210          215          220
Ile Pro Phe Leu Pro Leu Glu Tyr Arg His Val Arg Leu Cys Ala Arg
225          230          235          240
Asp Ala Phe Leu Ser Gln Glu Leu Leu Tyr Lys Glu Glu Thr Leu Asp
          245          250          255
Glu Ile Ala Gln Met Met Val Tyr Val Pro Lys Glu Glu Gln Leu Phe
          260          265          270
Ser Ser Gln Gly Cys Lys Ser Ile Ser Gln Arg Ile Asn Tyr Phe Leu
          275          280          285
Ser *
289

```

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<210> 857
<211> 51
<212> PRT
<213> Homo sapiens

```

```

<400> 857
Met Lys Ser Ser Asn Ile Phe Ser Leu Phe Leu Phe Leu Val Thr Phe
 1          5          10          15
Ile Phe Leu Thr Ser Ile Ala Ser Ile Leu Phe Ser Ser Trp Cys Pro
          20          25          30
Phe Ser Leu Ile Lys Cys Asn Gln Asp Leu Tyr Tyr Ser Gly Asn Gly
          35          40          45
Ala Ser *
50

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```

<210> 858
<211> 46
<212> PRT
<213> Homo sapiens

```

```

<400> 858
Met Leu Cys Ser Leu Phe His Ile Leu Ile Val Thr Leu Leu Leu Ala
 1          5          10          15
Ile Ser Phe Gly Met Ser Ser Arg Asn Thr Leu Asn Met Val Asn Ser
          20          25          30
Lys Ile Lys Glu His Ser Leu His Arg Lys Leu Glu Ile *
          35          40          45

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<210> 859
<211> 70
<212> PRT
<213> Homo sapiens

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```

<400> 859
Met Phe Trp Thr Leu Val Gln Gly Met Ser Leu Leu Cys Leu Thr Asp

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      1           5           10           15
Val Phe Gln Ala Leu Pro Ser Ile Cys Ile Ala Asn Ser Glu Ile Tyr
      20           25           30
Tyr Thr Val Leu Thr Leu Met Gln Phe Asn Cys Leu Trp Met Val Leu
      35           40           45
Ser Gly Lys Lys Val Ile Phe Ser Ser Glu Leu Met Val Arg Lys Gly
      50           55           60
Arg Arg Ser Trp Lys *
      65           69

```

<210> 860
 <211> 49
 <212> PRT
 <213> Homo sapiens

```

      <400> 860
Met Tyr Leu Lys Pro Leu Ile Tyr Phe Ser Ile Leu Ile Phe Leu Ser
      1           5           10           15
Gln Arg Ser Lys Leu Ser Leu Pro Tyr Asn Val His Asn Cys Met Asn
      20           25           30
Ile Gly Glu Asp Arg Arg Pro Gln Lys Val Gln Leu Leu Gln Leu Tyr
      35           40           45           48
*

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<210> 861
 <211> 50
 <212> PRT
 <213> Homo sapiens

```

      <400> 861
Met Leu Pro Leu Ala Leu Ile Val Asp Leu Ile Tyr Pro Trp Val Gln
      1           5           10           15
Val Arg Gly Pro Glu Asp Pro Asn His Gly Thr Thr Glu Arg Lys Arg
      20           25           30
Glu Glu Val Thr Cys Leu Gly Ala Ala Arg Leu Ser Leu Glu Ala Ala
      35           40           45
Arg *
      49

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<210> 862
 <211> 237
 <212> PRT
 <213> Homo sapiens

```

      <400> 862
Met Thr Ala Glu Phe Leu Ser Leu Leu Cys Leu Gly Leu Cys Leu Gly
      1           5           10           15
Tyr Glu Asp Glu Lys Lys Asn Glu Lys Pro Pro Lys Pro Ser Leu His
      20           25           30
Ala Trp Pro Ser Ser Val Val Glu Ala Glu Ser Asn Val Thr Leu Lys
      35           40           45
Cys Gln Ala His Ser Gln Asn Val Thr Phe Val Leu Arg Lys Val Asn
      50           55           60
Asp Ser Gly Tyr Lys Gln Glu Gln Ser Ser Ala Glu Asn Glu Ala Glu

```

```

65          70          75          80
Phe Pro Phe Thr Asp Leu Lys Pro Lys Asp Ala Gly Arg Tyr Phe Cys
85          90          95
Ala Tyr Lys Thr Thr Ala Ser His Glu Trp Ser Glu Ser Ser Glu His
100        105        110
Leu Gln Leu Val Val Thr Asp Lys His Asp Glu Leu Glu Ala Pro Ser
115        120        125
Met Lys Thr Asp Thr Arg Thr Ile Phe Val Ala Ile Phe Ser Cys Ile
130        135        140
Ser Ile Leu Leu Leu Phe Leu Ser Val Phe Ile Ile Tyr Arg Cys Ser
145        150        155        160
Gln His Ser Ser Ser Ser Glu Glu Ser Thr Lys Arg Thr Ser His Ser
165        170        175
Lys Leu Pro Glu Gln Glu Ala Ala Glu Ala Asp Leu Ser Asn Met Glu
180        185        190
Arg Val Ser Leu Ser Thr Ala Asp Pro Gln Gly Val Thr Tyr Ala Glu
195        200        205
Leu Ser Thr Ser Ala Leu Ser Glu Ala Ala Ser Asp Thr Thr Gln Glu
210        215        220
Pro Pro Gly Ser His Glu Tyr Ala Ala Leu Lys Val *
225        230        235 236

```

<210> 863
 <211> 306
 <212> PRT
 <213> Homo sapiens

```

<400> 863
Met Pro Leu Leu Thr Leu Tyr Leu Leu Leu Phe Trp Leu Ser Gly Tyr
1      5      10      15
Ser Ile Ala Thr Gln Ile Thr Gly Pro Thr Thr Val Asn Gly Leu Glu
20     25     30
Arg Gly Ser Leu Thr Val Gln Cys Val Tyr Arg Ser Gly Trp Glu Thr
35     40     45
Tyr Leu Lys Trp Trp Cys Arg Gly Ala Ile Trp Arg Asp Cys Lys Ile
50     55     60
Leu Val Lys Thr Ser Gly Ser Glu Gln Glu Val Lys Arg Asp Arg Val
65     70     75     80
Ser Ile Lys Asp Asn Gln Lys Asn Arg Thr Phe Thr Val Thr Met Glu
85     90     95
Asp Leu Met Lys Thr Asp Ala Asp Thr Tyr Trp Cys Gly Ile Glu Lys
100    105    110
Thr Gly Asn Asp Leu Gly Val Thr Val Gln Val Thr Ile Asp Pro Ala
115    120    125
Ser Thr Pro Ala Pro Thr Thr Pro Thr Ser Thr Thr Phe Thr Ala Pro
130    135    140
Val Thr Gln Glu Glu Thr Ser Ser Ser Pro Thr Leu Thr Gly His His
145    150    155    160
Leu Asp Asn Arg His Lys Leu Leu Lys Leu Ser Val Leu Leu Pro Leu
165    170    175
Ile Phe Thr Ile Leu Leu Leu Leu Val Ala Ala Ser Leu Leu Ala
180    185    190
Trp Arg Met Met Lys Tyr Gln Gln Lys Ala Ala Gly Met Ser Pro Glu
195    200    205
Gln Val Leu Gln Pro Leu Glu Gly Asp Leu Cys Tyr Ala Asp Leu Thr
210    215    220
Leu Gln Leu Ala Gly Thr Ser Pro Gln Lys Ala Thr Thr Lys Leu Ser
225    230    235    240
Ser Ala Gln Val Asp Gln Val Glu Val Glu Tyr Val Thr Met Ala Ser
245    250    255
Leu Pro Lys Glu Asp Ile Ser Tyr Ala Ser Leu Thr Leu Gly Ala Glu

```

260 265 270
 Asp Gln Glu Pro Thr Tyr Cys Asn Met Gly His Leu Ser Ser His Leu
 275 280 285
 Pro Gly Arg Gly Pro Glu Glu Pro Thr Glu Tyr Ser Thr Ile Ser Arg
 290 295 300
 Pro *
 305

<210> 864
 <211> 124
 <212> PRT
 <213> Homo sapiens

<400> 864
 Met Arg Ile Ser Cys Pro Trp Cys Leu Trp Asn Leu Ser Leu Glu Val
 1 5 10 15
 Gly Gly Thr Val Ala Thr Thr Ala Gln Gln His Ile Ala Glu Val Cys
 20 25 30
 Arg Ser Ser Gln Ala Gly Arg Gly Phe Leu His Cys Leu His Pro Ala
 35 40 45
 Leu Gly Thr Ser Gly Cys His Pro Val Pro Cys Ser Ser Ser Leu Val
 50 55 60
 Gly Phe Gly Trp Arg Gly Tyr Ser Gly Glu Ala Ser Trp Gly Arg Ala
 65 70 75 80
 Ser Ser Arg Pro Ala Ala Pro Thr Pro Pro Met Pro Ala Asn Val Gln
 85 90 95
 Ala Gly Trp Glu Gln Ser Val Arg Leu Leu Cys His Ser Trp Leu Arg
 100 105 110
 Leu Ala Ala Leu His Val Thr His Glu Glu Ser *
 115 120 123

<210> 865
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 865
 Met Ser Gln Gln Ser Trp Phe Thr Val Tyr Leu Phe Tyr Leu Leu Arg
 1 5 10 15
 Ser Asn Ile Trp Leu Glu Met Gly Ile Pro Lys Tyr Val Lys Glu Val
 20 25 30
 Glu Leu Arg Ser Leu Asp Phe Thr Ser Asn Tyr Phe Ser *
 35 40 45

<210> 866
 <211> 189
 <212> PRT
 <213> Homo sapiens

<400> 866
 Met Asp Trp Thr Trp Arg Phe Leu Phe Val Val Ala Ala Ala Thr Gly
 1 5 10 15
 Val Gln Ser Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys
 20 25 30
 Pro Gly Ser Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe

```

      35      40      45
Ser Thr Tyr Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu
  50      55      60
Glu Trp Met Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala
  65      70      75      80
Gln Lys Phe Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser
      85      90      95
Thr Ala Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val
      100      105      110
Tyr Tyr Cys Ala Arg Val Trp Gly Gly Ser Gly Ser Tyr Tyr Ser Ile
      115      120      125
Val Ser Thr Ile Gly Ala Thr Thr Thr Val Trp Met Ser Gly Ala Arg
      130      135      140
Glu Pro Trp Ser Pro Ser Pro Gln Pro Pro Pro Arg Ala His Arg Ser
  145      150      155      160
Ser Pro Trp His Pro Pro Pro Arg Ala Pro Leu Gly Ala Gln Arg Pro
      165      170      175
Trp Ala Ala Trp Ser Arg Thr Thr Ser Pro Asn Arg *
      180      185      188

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<210> 867
 <211> 189
 <212> PRT
 <213> Homo sapiens

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      <400> 867
Met Asp Trp Thr Trp Arg Phe Leu Phe Val Val Ala Ala Ala Thr Gly
  1      5      10      15
Val Gln Ser Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys
      20      25      30
Pro Gly Ser Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe
      35      40      45
Ser Thr Tyr Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu
      50      55      60
Glu Trp Met Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala
      65      70      75      80
Gln Lys Phe Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser
      85      90      95
Thr Ala Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val
      100      105      110
Tyr Tyr Cys Ala Arg Val Trp Gly Gly Ser Gly Ser Tyr Tyr Ser Ile
      115      120      125
Val Ser Thr Ile Gly Ala Thr Thr Thr Val Trp Met Ser Gly Ala Arg
      130      135      140
Glu Pro Trp Ser Pro Ser Pro Gln Pro Pro Pro Arg Ala His Arg Ser
  145      150      155      160
Ser Pro Trp His Pro Pro Pro Arg Ala Pro Leu Gly Ala Gln Arg Pro
      165      170      175
Trp Ala Ala Trp Ser Arg Thr Thr Ser Pro Asn Arg *
      180      185      188

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<210> 868
 <211> 276
 <212> PRT
 <213> Homo sapiens

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      <400> 868
Met Ala Cys Pro Gly Phe Leu Trp Ala Leu Val Ile Ser Thr Cys Leu

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      1           5           10           15
Glu Phe Ser Met Ala Gln Thr Val Thr Gln Ser Gln Pro Glu Met Ser
      20           25           30
Val Gln Glu Ala Glu Thr Val Thr Leu Ser Cys Thr Tyr Asp Thr Ser
      35           40           45
Glu Ser Asp Tyr Tyr Leu Phe Trp Tyr Lys Gln Pro Pro Ser Arg Gln
      50           55           60
Met Ile Leu Val Ile Arg Gln Glu Ala Tyr Lys Gln Gln Asn Ala Thr
      65           70           75           80
Glu Asn Arg Phe Ser Val Asn Phe Gln Lys Ala Ala Lys Ser Phe Ser
      85           90           95
Leu Lys Ile Ser Asp Ser Gln Leu Gly Asp Ala Ala Met Tyr Phe Cys
      100          105          110
Ala Tyr Arg Ser Gly Arg Asp Asp Lys Ile Ile Phe Gly Lys Gly Thr
      115          120          125
Arg Leu His Ile Leu Pro Asn Ile Gln Asn Pro Asp Pro Ala Val Tyr
      130          135          140
Gln Leu Arg Asp Ser Lys Ser Ser Asp Lys Ser Val Cys Leu Phe Thr
      145          150          155          160
Asp Phe Asp Ser Gln Thr Asn Val Ser Gln Ser Lys Asp Ser Asp Val
      165          170          175
Tyr Ile Thr Asp Lys Thr Val Leu Asp Met Arg Ser Met Asp Phe Lys
      180          185          190
Ser Asn Ser Ala Val Ala Trp Ser Asn Lys Ser Asp Phe Ala Cys Ala
      195          200          205
Asn Ala Phe Asn Asn Ser Ile Ile Pro Glu Asp Thr Phe Phe Pro Ser
      210          215          220
Pro Glu Ser Ser Cys Asp Val Lys Leu Val Glu Lys Ser Phe Glu Thr
      225          230          235          240
Asp Thr Asn Leu Asn Phe Gln Asn Leu Ser Val Ile Gly Phe Arg Ile
      245          250          255
Leu Leu Leu Lys Val Ala Gly Phe Asn Leu Leu Met Thr Leu Arg Leu
      260          265          270
Trp Ser Ser *
      275

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<210> 869
<211> 49
<212> PRT
<213> Homo sapiens

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      <400> 869
Met Val Leu Arg Leu Pro Trp Trp Gly Val Leu Ala Tyr Gly Asn Asp
      1           5           10           15
Val Gly Phe Gly Phe Tyr Ser Phe Leu Cys Tyr Gln Ile Asn Pro Pro
      20           25           30
Thr Cys Pro Ile Leu Trp Leu Trp Glu Val Leu Thr Val Gly Lys Ser
      35           40           45           48
*

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```

<210> 870
<211> 98
<212> PRT
<213> Homo sapiens

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```

      <400> 870
Met Glu Phe Leu Gly Pro Cys Gly Leu Arg Leu Val Gly Ala Arg Pro

```

```

      1           5           10           15
Leu Leu Pro Tyr Trp Leu Leu Val Phe Leu Ala Ala Leu Asn Ala Leu
      20           25           30
Leu Gln Trp Leu Leu Arg Pro Leu Val Leu Tyr Ala Pro Leu Leu Asn
      35           40           45
Pro Tyr Thr Leu Ala Val Ala Asn Thr Thr Phe Thr Val Ser Thr Asp
      50           55           60
Lys Ala Gln Arg His Phe Gly Tyr Glu Pro Pro Phe Ser Trp Glu Asp
      65           70           75           80
Ser Arg Thr Arg Thr Ile Leu Trp Val Gln Ala Ala Thr Gly Ser Ala
      85           90           95
Gln *
97

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<210> 871
<211> 259
<212> PRT
<213> Homo sapiens

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```

      <400> 871
Met Pro Arg Pro Arg Arg Val Ser Gln Leu Leu Asp Leu Cys Leu Trp
      1           5           10           15
Cys Phe Met Lys Asn Ile Ser Arg Tyr Leu Thr Asp Ile Lys Pro Leu
      20           25           30
Pro Pro Asn Ile Lys Asp Arg Leu Ile Lys Ile Met Ser Met Gln Gly
      35           40           45
Gln Ile Thr Asp Ser Asn Ile Ser Glu Ile Leu His Pro Glu Val Gln
      50           55           60
Thr Leu Asp Leu Arg Ser Cys Asp Ile Ser Asp Ala Ala Leu Leu His
      65           70           75           80
Leu Ser Asn Cys Arg Lys Leu Lys Lys Leu Asn Leu Asn Ala Ser Lys
      85           90           95
Gly Asn Arg Val Ser Val Thr Ser Glu Gly Ile Lys Ala Val Ala Ser
      100          105          110
Ser Cys Ser Tyr Leu His Glu Ala Ser Leu Lys Arg Cys Cys Asn Leu
      115          120          125
Thr Asp Glu Gly Val Val Ala Leu Ala Leu Asn Cys Gln Leu Leu Lys
      130          135          140
Ile Ile Asp Leu Gly Gly Cys Leu Ser Ile Thr Asp Val Ser Leu His
      145          150          155          160
Ala Leu Gly Lys Asn Cys Pro Phe Leu Gln Cys Val Asp Phe Ser Ala
      165          170          175
Thr Gln Val Ser Asp Ser Gly Val Ile Ala Leu Val Ser Gly Pro Cys
      180          185          190
Ala Lys Lys Leu Glu Glu Ile His Met Gly His Cys Val Asn Leu Thr
      195          200          205
Asp Gly Ala Val Glu Ala Val Leu Thr Tyr Cys Pro Gln Ile Arg Ile
      210          215          220
Leu Leu Phe His Gly Cys Pro Leu Ile Thr Asp His Ser Arg Glu Val
      225          230          235          240
Leu Glu Gln Leu Val Gly Pro Asn Lys Leu Lys Gln Val Thr Trp Thr
      245          250          255
Val Tyr *
258

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<210> 872
<211> 464
<212> PRT
<213> Homo sapiens

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<400> 872

Met	Leu	Leu	Leu	Leu	Leu	Pro	Leu	Leu	Trp	Gly	Arg	Glu	Arg	Ala	Glu
1				5					10					15	
Gly	Gln	Thr	Ser	Lys	Leu	Leu	Thr	Met	Gln	Ser	Ser	Val	Thr	Val	Gln
			20					25						30	
Glu	Gly	Leu	Cys	Val	His	Val	Pro	Cys	Ser	Phe	Ser	Tyr	Pro	Ser	His
		35					40					45			
Gly	Trp	Ile	Tyr	Pro	Gly	Pro	Val	Val	His	Gly	Tyr	Trp	Phe	Arg	Glu
	50					55					60				
Gly	Ala	Asn	Thr	Asp	Gln	Asp	Ala	Pro	Val	Ala	Thr	Asn	Asn	Pro	Ala
	65				70					75				80	
Arg	Ala	Val	Trp	Glu	Thr	Arg	Asp	Arg	Phe	His	Leu	Leu	Gly	Asp	
				85				90						95	
Pro	His	Thr	Glu	Asn	Cys	Thr	Leu	Ser	Ile	Arg	Asp	Ala	Arg	Arg	Ser
		100						105					110		
Asp	Ala	Gly	Arg	Tyr	Phe	Phe	Arg	Met	Glu	Lys	Gly	Ser	Ile	Lys	Trp
	115						120					125			
Asn	Tyr	Lys	His	His	Arg	Leu	Ser	Val	Asn	Val	Thr	Ala	Leu	Thr	His
	130					135					140				
Arg	Pro	Asn	Ile	Leu	Ile	Pro	Gly	Thr	Leu	Glu	Ser	Gly	Cys	Pro	Gln
	145			150						155					160
Asn	Leu	Thr	Cys	Ser	Val	Pro	Trp	Ala	Cys	Glu	Gln	Gly	Thr	Pro	Pro
			165					170						175	
Met	Ile	Ser	Trp	Ile	Gly	Thr	Ser	Val	Ser	Pro	Leu	Asp	Pro	Ser	Thr
		180					185						190		
Thr	Arg	Ser	Ser	Val	Leu	Thr	Leu	Ile	Pro	Gln	Pro	Gln	Asp	His	Gly
	195						200					205			
Thr	Ser	Leu	Thr	Cys	Gln	Val	Thr	Phe	Pro	Gly	Ala	Ser	Val	Thr	Thr
	210					215					220				
Asn	Lys	Thr	Val	His	Leu	Asn	Val	Ser	Tyr	Pro	Pro	Gln	Asn	Leu	Thr
	225				230					235					240
Met	Thr	Val	Phe	Gln	Gly	Asp	Gly	Thr	Val	Ser	Thr	Val	Leu	Gly	Asn
			245					250						255	
Gly	Ser	Ser	Leu	Ser	Leu	Pro	Glu	Gly	Gln	Ser	Leu	Arg	Leu	Val	Cys
		260					265						270		
Ala	Val	Asp	Ala	Val	Asp	Ser	Asn	Pro	Pro	Ala	Arg	Leu	Ser	Leu	Ser
	275						280					285			
Trp	Arg	Gly	Leu	Thr	Leu	Cys	Pro	Ser	Gln	Pro	Ser	Asn	Pro	Gly	Val
	290					295					300				
Leu	Glu	Leu	Pro	Trp	Val	His	Leu	Arg	Asp	Glu	Asp	Glu	Phe	Thr	Cys
	305				310					315					320
Arg	Ala	Gln	Asn	Pro	Leu	Gly	Ser	Gln	Gln	Val	Tyr	Leu	Asn	Val	Ser
			325						330					335	
Leu	Gln	Ser	Lys	Ala	Thr	Ser	Gly	Val	Thr	Gln	Gly	Ala	Val	Gly	Gly
		340					345						350		
Ala	Gly	Ala	Thr	Ala	Leu	Val	Phe	Leu	Ser	Phe	Cys	Val	Ile	Phe	Val
	355					360						365			
Val	Val	Arg	Ser	Cys	Arg	Lys	Lys	Ser	Ala	Arg	Pro	Ala	Ala	Gly	Val
	370					375					380				
Gly	Asp	Thr	Gly	Ile	Glu	Asp	Ala	Asn	Ala	Val	Arg	Gly	Ser	Ala	Ser
	385				390					395					400
Gln	Gly	Pro	Leu	Thr	Glu	Pro	Trp	Ala	Glu	Asp	Ser	Pro	Pro	Asp	Gln
			405						410					415	
Pro	Pro	Pro	Ala	Ser	Ala	Arg	Ser	Ser	Val	Gly	Glu	Gly	Glu	Leu	Gln
		420						425					430		
Tyr	Ala	Ser	Leu	Ser	Phe	Gln	Met	Val	Lys	Pro	Trp	Asp	Ser	Arg	Gly
	435						440					445			
Gln	Glu	Ala	Thr	Asp	Thr	Glu	Tyr	Ser	Glu	Ile	Lys	Ile	His	Arg	*
	450					455					460			463	

<210> 873
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 873
 Met Leu Phe Gly Leu Ala Leu Gln Leu Ile Leu Asp Leu Lys Leu Thr
 1 5 10 15
 Thr Val Asn Gln Arg Glu Ser Asp Val Ala Arg Val Ala Thr Ala Glu
 20 25 30
 Glu Tyr Ser Lys Lys Gly Leu Leu Gly Gln Glu Thr Leu His Ala Gly
 35 40 45
 Ser Gln Thr Arg Met Gln Ile Leu Ile Ser *
 50 55 58

<210> 874
 <211> 71
 <212> PRT
 <213> Homo sapiens

<400> 874
 Met Leu Lys Leu Leu Cys Ala Ala Glu Val Thr Asn Val Leu Phe Asn
 1 5 10 15
 Cys Val Phe Asp Tyr Gly Cys Pro Lys Thr Phe Cys His Pro Trp Thr
 20 25 30
 Ile Phe Val Leu Phe Trp Ser Ser Leu Glu Gly Gly Phe Ile Ile Ser
 35 40 45
 Tyr Lys Thr Leu Thr Gly Ala Leu Glu Cys Arg Phe Leu Ile Thr Leu
 50 55 60
 Glu Ile Val Thr Ser Glu *
 65 70

<210> 875
 <211> 239
 <212> PRT
 <213> Homo sapiens

<400> 875
 Met Arg Ser Ser Leu Thr Met Val Gly Thr Leu Trp Ala Phe Leu Ser
 1 5 10 15
 Leu Val Thr Ala Val Thr Ser Ser Thr Ser Tyr Phe Leu Pro Tyr Trp
 20 25 30
 Leu Phe Gly Ser Gln Met Gly Lys Pro Val Ser Phe Ser Thr Phe Arg
 35 40 45
 Arg Cys Asn Tyr Pro Val Arg Gly Glu Gly His Ser Leu Ile Met Val
 50 55 60
 Glu Glu Cys Gly Arg Tyr Ala Ser Phe Asn Ala Ile Pro Ser Leu Ala
 65 70 75 80
 Trp Gln Met Cys Thr Val Val Thr Gly Ala Gly Cys Ala Leu Leu Leu
 85 90 95
 Leu Val Ala Leu Ala Ala Val Leu Gly Cys Cys Met Glu Glu Leu Ile
 100 105 110
 Ser Arg Met Met Gly Arg Cys Met Gly Ala Ala Gln Phe Val Gly Gly
 115 120 125
 Leu Leu Ile Ser Ser Gly Cys Ala Leu Tyr Pro Leu Gly Trp Asn Ser
 130 135 140
 Pro Glu Ile Met Gln Thr Cys Gly Asn Val Ser Asn Gln Phe Gln Leu

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145          150          155          160
Gly Thr Cys Arg Leu Gly Trp Ala Tyr Tyr Cys Ala Gly Gly Gly Ala
          165          170          175
Ala Ala Ala Met Leu Ile Cys Thr Trp Leu Ser Cys Phe Ala Gly Arg
          180          185          190
Asn Pro Lys Pro Val Ile Leu Gly Gly Lys His His Glu Glu Asn His
          195          200          205
Phe Leu Cys Tyr Gly Ala Trp Pro Leu Pro Ser Thr Leu Glu Leu Arg
          210          215          220
Lys Glu Asp Arg Gly Gly Arg Ala Thr Gly Lys Gln Val Thr Pro
225          230          235          239

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<210> 876
 <211> 239
 <212> PRT
 <213> Homo sapiens

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          <400> 876
Met Arg Ser Ser Leu Thr Met Val Gly Thr Leu Trp Ala Phe Leu Ser
 1          5          10          15
Leu Val Thr Ala Val Thr Ser Ser Thr Ser Tyr Phe Leu Pro Tyr Trp
          20          25          30
Leu Phe Gly Ser Gln Met Gly Lys Pro Val Ser Phe Ser Thr Phe Arg
          35          40          45
Arg Cys Asn Tyr Pro Val Arg Gly Glu Gly His Ser Leu Ile Met Val
          50          55          60
Glu Glu Cys Gly Arg Tyr Ala Ser Phe Asn Ala Ile Pro Ser Leu Ala
          65          70          75
Trp Gln Met Cys Thr Val Val Thr Gly Ala Gly Cys Ala Leu Leu Leu
          85          90          95
Leu Val Ala Leu Ala Ala Val Leu Gly Cys Cys Met Glu Glu Leu Ile
          100          105          110
Ser Arg Met Met Gly Arg Cys Met Gly Ala Ala Gln Phe Val Gly Gly
          115          120          125
Leu Leu Ile Ser Ser Gly Cys Ala Leu Tyr Pro Leu Gly Trp Asn Ser
          130          135          140
Pro Glu Ile Met Gln Thr Cys Gly Asn Val Ser Asn Gln Phe Gln Leu
145          150          155          160
Gly Thr Cys Arg Leu Gly Trp Ala Tyr Tyr Cys Ala Gly Gly Gly Ala
          165          170          175
Ala Ala Ala Met Leu Ile Cys Thr Trp Leu Ser Cys Phe Ala Gly Arg
          180          185          190
Asn Pro Lys Pro Val Ile Leu Gly Gly Lys His His Glu Glu Asn His
          195          200          205
Phe Leu Cys Tyr Gly Ala Trp Pro Leu Pro Ser Thr Leu Glu Leu Arg
          210          215          220
Lys Glu Asp Arg Gly Gly Arg Ala Thr Gly Lys Gln Val Thr Pro
225          230          235          239

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<210> 877
 <211> 525
 <212> PRT
 <213> Homo sapiens

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          <400> 877
Met Ser Leu Leu Ser Leu Pro Trp Leu Gly Leu Arg Pro Val Ala Met
 1          5          10          15
Ser Pro Trp Leu Leu Leu Leu Val Val Gly Ser Trp Leu Leu Ala

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699

<210> 878
 <211> 525
 <212> PRT
 <213> Homo sapiens

<400> 878
 Met Ser Leu Leu Ser Leu Pro Trp Leu Gly Leu Arg Pro Val Ala Met
 1 5 10 15
 Ser Pro Trp Leu Leu Leu Leu Val Val Gly Ser Trp Leu Leu Ala
 20 25 30
 Arg Ile Leu Ala Trp Thr Tyr Ala Phe Tyr Asn Asn Cys Arg Arg Leu
 35 40 45
 Gln Cys Phe Pro Gln Pro Pro Lys Arg Asn Trp Phe Trp Gly His Leu
 50 55 60
 Gly Leu Ile Thr Pro Thr Glu Glu Gly Leu Lys Asp Ser Thr Gln Met
 65 70 75 80
 Ser Ala Thr Tyr Ser Gln Gly Phe Thr Val Trp Leu Gly Pro Ile Ile
 85 90 95
 Pro Phe Ile Val Leu Cys His Pro Asp Thr Ile Arg Ser Ile Thr Asn
 100 105 110
 Ala Ser Ala Ala Ile Ala Pro Lys Asp Asn Leu Phe Ile Arg Phe Leu
 115 120 125
 Lys Pro Trp Leu Gly Glu Gly Ile Leu Leu Ser Gly Gly Asp Lys Trp
 130 135 140
 Ser Arg His Arg Arg Met Leu Thr Pro Ala Phe His Phe Asn Ile Leu
 145 150 155 160
 Lys Ser Tyr Ile Thr Ile Phe Asn Lys Ser Ala Asn Ile Met Leu Asp
 165 170 175
 Lys Trp Gln His Leu Ala Ser Glu Gly Ser Ser Cys Leu Asp Met Phe
 180 185 190
 Glu His Ile Ser Leu Met Thr Leu Asp Ser Leu Gln Lys Cys Ile Phe
 195 200 205
 Ser Phe Asp Ser His Cys Gln Glu Arg Pro Ser Glu Tyr Ile Ala Thr
 210 215 220
 Ile Leu Glu Leu Ser Ala Leu Val Glu Lys Arg Ser Gln His Ile Leu
 225 230 235 240
 Gln His Met Asp Phe Leu Tyr Tyr Leu Ser His Asp Gly Arg Arg Phe
 245 250 255
 His Arg Ala Cys Arg Leu Val His Asp Phe Thr Asp Ala Val Ile Arg
 260 265 270
 Glu Arg Arg Arg Thr Leu Pro Thr Gln Gly Ile Asp Asp Phe Phe Lys
 275 280 285
 Asp Lys Ala Lys Ser Lys Thr Leu Asp Phe Ile Asp Val Leu Leu Leu
 290 295 300
 Ser Lys Asp Glu Asp Gly Lys Ala Leu Ser Asp Glu Asp Ile Arg Ala
 305 310 315 320
 Glu Ala Asp Thr Phe Met Phe Gly Gly His Asp Thr Thr Ala Ser Gly
 325 330 335
 Leu Ser Trp Val Leu Tyr Asn Leu Ala Arg His Pro Glu Tyr Gln Glu
 340 345 350
 Arg Cys Arg Gln Glu Val Gln Glu Leu Leu Lys Asp Arg Asp Pro Lys
 355 360 365
 Glu Ile Glu Trp Asp Asp Leu Ala Gln Leu Pro Phe Leu Thr Met Cys
 370 375 380
 Val Lys Glu Ser Leu Arg Leu His Pro Pro Ala Pro Phe Ile Ser Arg
 385 390 395 400
 Cys Cys Thr Gln Asp Ile Val Leu Pro Asp Gly Arg Val Ile Pro Lys
 405 410 415
 Gly Ile Thr Cys Leu Ile Asp Ile Ile Gly Val His His Asn Pro Thr
 420 425 430
 Val Trp Pro Asp Pro Glu Val Tyr Asp Pro Phe Arg Phe Asp Pro Glu

435	440	445
Asn Ser Lys Gly Arg Ser Pro Leu Ala Phe Ile Pro Phe Ser Ala Gly		
450	455	460
Pro Arg Asn Cys Ile Gly Gln Ala Phe Ala Met Ala Glu Met Lys Val		
465	470	475
Val Leu Ala Leu Met Leu Leu His Phe Arg Phe Leu Pro Asp His Thr		
485	490	495
Glu Pro Arg Arg Lys Leu Glu Leu Ile Met Arg Ala Glu Gly Gly Leu		
500	505	510
Trp Leu Arg Val Glu Pro Leu Asn Val Ser Leu Gln *		
515	520	524

<210> 879
 <211> 525
 <212> PRT
 <213> Homo sapiens

<400> 879

Met Ser Leu Leu Ser Leu Pro Trp Leu Gly Leu Arg Pro Val Ala Met	1	5	10	15
Ser Pro Trp Leu Leu Leu Leu Leu Val Val Gly Ser Trp Leu Leu Ala	20	25	30	
Arg Ile Leu Ala Trp Thr Tyr Ala Phe Tyr Asn Asn Cys Arg Arg Leu	35	40	45	
Gln Cys Phe Pro Gln Pro Pro Lys Arg Asn Trp Phe Trp Gly His Leu	50	55	60	
Gly Leu Ile Thr Pro Thr Glu Glu Gly Leu Lys Asp Ser Thr Gln Met	65	70	75	80
Ser Ala Thr Tyr Ser Gln Gly Phe Thr Val Trp Leu Gly Pro Ile Ile	85	90	95	
Pro Phe Ile Val Leu Cys His Pro Asp Thr Ile Arg Ser Ile Thr Asn	100	105	110	
Ala Ser Ala Ala Ile Ala Pro Lys Asp Asn Leu Phe Ile Arg Phe Leu	115	120	125	
Lys Pro Trp Leu Gly Glu Gly Ile Leu Leu Ser Gly Gly Asp Lys Trp	130	135	140	
Ser Arg His Arg Arg Met Leu Thr Pro Ala Phe His Phe Asn Ile Leu	145	150	155	160
Lys Ser Tyr Ile Thr Ile Phe Asn Lys Ser Ala Asn Ile Met Leu Asp	165	170	175	
Lys Trp Gln His Leu Ala Ser Glu Gly Ser Ser Cys Leu Asp Met Phe	180	185	190	
Glu His Ile Ser Leu Met Thr Leu Asp Ser Leu Gln Lys Cys Ile Phe	195	200	205	
Ser Phe Asp Ser His Cys Gln Glu Arg Pro Ser Glu Tyr Ile Ala Thr	210	215	220	
Ile Leu Glu Leu Ser Ala Leu Val Glu Lys Arg Ser Gln His Ile Leu	225	230	235	240
Gln His Met Asp Phe Leu Tyr Tyr Leu Ser His Asp Gly Arg Arg Phe	245	250	255	
His Arg Ala Cys Arg Leu Val His Asp Phe Thr Asp Ala Val Ile Arg	260	265	270	
Glu Arg Arg Arg Thr Leu Pro Thr Gln Gly Ile Asp Asp Phe Phe Lys	275	280	285	
Asp Lys Ala Lys Ser Lys Thr Leu Asp Phe Ile Asp Val Leu Leu Leu	290	295	300	
Ser Lys Asp Glu Asp Gly Lys Ala Leu Ser Asp Glu Asp Ile Arg Ala	305	310	315	320
Glu Ala Asp Thr Phe Met Phe Gly Gly His Asp Thr Thr Ala Ser Gly	325	330	335	
Leu Ser Trp Val Leu Tyr Asn Leu Ala Arg His Pro Glu Tyr Gln Glu				


```

      340      345      350
Arg Cys Arg Gln Glu Val Gln Glu Leu Leu Lys Asp Arg Asp Pro Lys
      355      360      365
Glu Ile Glu Trp Asp Asp Leu Ala Gln Leu Pro Phe Leu Thr Met Cys
      370      375      380
Val Lys Glu Ser Leu Arg Leu His Pro Pro Ala Pro Phe Ile Ser Arg
385      390      395      400
Cys Cys Thr Gln Asp Ile Val Leu Pro Asp Gly Arg Val Ile Pro Lys
      405      410      415
Gly Ile Thr Cys Leu Ile Asp Ile Ile Gly Val His His Asn Pro Thr
      420      425      430
Val Trp Pro Asp Pro Glu Val Tyr Asp Pro Phe Arg Phe Asp Pro Glu
      435      440      445
Asn Ser Lys Gly Arg Ser Pro Leu Ala Phe Ile Pro Phe Ser Ala Gly
450      455      460
Pro Arg Asn Cys Ile Gly Gln Ala Phe Ala Met Ala Glu Met Lys Val
465      470      475      480
Val Leu Ala Leu Met Leu Leu His Phe Arg Phe Leu Pro Asp His Thr
      485      490      495
Glu Pro Arg Arg Lys Leu Glu Leu Ile Met Arg Ala Glu Gly Gly Leu
500      505      510
Trp Leu Arg Val Glu Pro Leu Asn Val Ser Leu Gln *
      515      520      524

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<210> 880
 <211> 200
 <212> PRT
 <213> Homo sapiens

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      <400> 880
Met Arg Leu Ser Leu Pro Leu Leu Leu Leu Leu Leu Gly Ala Trp Ala
  1      5      10      15
Ile Pro Gly Gly Leu Gly Val Met Ala Pro Leu Thr Ala Thr Ala Pro
      20      25      30
Glu Val Asp Asp Glu Glu Met Tyr Ser Ala His Met Pro Ala His Leu
      35      40      45
Arg Cys Asp Ala Cys Arg Ala Val Ala Tyr Gln Glu Cys Gly Pro Lys
50      55      60
Thr Leu Ala Lys Ala Glu Thr Lys Leu His Thr Ser Asn Ser Gly Gly
65      70      75      80
Arg Arg Asp Val Ser Glu Leu Val Tyr Thr Asp Val Leu Asp Arg Ser
      85      90      95
Cys Ser Arg Asn Trp Gln Asp Tyr Gly Val Arg Glu Val Asp Gln Val
100      105      110
Lys Arg Leu Thr Gly Pro Gly Leu Ser Glu Gly Pro Glu Pro Ser Ile
115      120      125
Ser Val Met Val Thr Gly Gly Pro Trp His Thr Arg Leu Ser Arg Thr
130      135      140
Cys Leu His Tyr Leu Gly Glu Phe Gly Glu Asp Gln Ile Tyr Glu Ala
145      150      155      160
His Gln Gln Gly Arg Gly Ala Leu Glu Ala Leu Leu Cys Gly Gly Pro
      165      170      175
Pro Gly Gly Leu Leu Arg Glu Gly Val Ser His Lys Arg Arg Ala Leu
180      185      190
Val Leu Asp Ser Thr Leu Leu *
195      199

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<210> 881
 <211> 147

<212> PRT

<213> Homo sapiens

<400> 881

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Met Thr Leu Arg Pro Ser Leu Leu Pro Leu His Leu Leu Leu Leu Leu
 1          5          10          15
Leu Leu Ser Ala Ala Val Cys Arg Ala Glu Ala Gly Leu Glu Thr Glu
          20          25          30
Ser Pro Val Arg Thr Leu Gln Val Glu Thr Leu Val Glu Pro Pro Glu
          35          40          45
Pro Cys Ala Glu Pro Ala Ala Phe Gly Asp Thr Leu His Ile His Tyr
          50          55          60
Thr Gly Ser Leu Val Asp Gly Arg Ile Ile Asp Thr Ser Leu Thr Arg
          65          70          75          80
Asp Pro Leu Val Ile Glu Leu Gly Gln Lys Gln Val Ile Pro Gly Leu
          85          90          95
Glu Gln Ser Leu Leu Asp Met Cys Val Gly Glu Lys Arg Arg Ala Ile
          100          105          110
Ile Pro Ser His Leu Ala Tyr Gly Lys Arg Gly Phe Pro Pro Ser Val
          115          120          125
Pro Gly Thr Lys Asp Asn Leu Met Arg Pro Pro Gly Met Thr Ser Ser
          130          135          140
Ser Gln *
145 146

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<210> 882

<211> 367

<212> PRT

<213> Homo sapiens

<400> 882

```

Met Ala Leu Arg Phe Leu Leu Gly Phe Leu Leu Ala Gly Val Asp Leu
 1          5          10          15
Gly Val Tyr Leu Met Arg Leu Glu Leu Cys Asp Pro Thr Gln Arg Leu
          20          25          30
Arg Val Ala Leu Ala Gly Glu Leu Val Gly Val Gly Gly His Phe Leu
          35          40          45
Phe Leu Gly Leu Ala Leu Val Ser Lys Asp Trp Arg Phe Leu Gln Arg
          50          55          60
Met Ile Thr Ala Pro Cys Ile Leu Phe Leu Phe Tyr Gly Trp Pro Gly
          65          70          75          80
Leu Phe Leu Glu Ser Ala Arg Trp Leu Ile Val Lys Arg Gln Ile Glu
          85          90          95
Glu Ala Gln Ser Val Leu Arg Ile Leu Ala Glu Arg Asn Arg Pro His
          100          105          110
Gly Gln Met Leu Gly Glu Glu Ala Gln Glu Ala Leu Gln Asp Leu Glu
          115          120          125
Asn Thr Cys Pro Leu Pro Ala Thr Ser Ser Phe Ser Phe Ala Ser Leu
          130          135          140
Leu Asn Tyr Arg Asn Ile Trp Lys Asn Leu Leu Ile Leu Gly Phe Thr
          145          150          155          160
Asn Phe Ile Ala His Ala Ile Arg His Cys Tyr Gln Pro Val Gly Gly
          165          170          175
Gly Gly Ser Pro Ser Asp Phe Tyr Leu Cys Ser Leu Leu Ala Ser Gly
          180          185          190
Thr Ala Ala Leu Ala Cys Val Phe Leu Gly Val Thr Val Asp Arg Phe
          195          200          205
Gly Arg Arg Gly Ile Leu Leu Leu Ser Met Thr Leu Thr Gly Ile Ala
          210          215          220
Ser Leu Val Leu Leu Gly Leu Trp Asp Tyr Leu Asn Glu Ala Ala Ile

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```

225          230          235          240
Thr Thr Phe Ser Val Leu Gly Leu Phe Ser Ser Gln Ala Ala Ala Ile
          245          250          255
Leu Ser Thr Leu Leu Ala Ala Glu Val Ile Pro Thr Thr Val Arg Gly
          260          265          270
Arg Gly Leu Gly Leu Ile Met Ala Leu Gly Ala Leu Gly Gly Leu Ser
          275          280          285
Gly Pro Ala Gln Arg Leu His Met Gly His Gly Ala Phe Leu Gln His
          290          295          300
Val Val Leu Ala Ala Cys Ala Leu Leu Cys Ile Leu Ser Ile Met Leu
305          310          315
Leu Pro Glu Thr Lys Arg Lys Leu Leu Pro Glu Val Leu Arg Asp Gly
          325          330          335
Glu Leu Cys Arg Arg Pro Ser Leu Leu Arg Gln Pro Pro Pro Thr Arg
          340          345          350
Cys Asp His Val Pro Leu Leu Ala Thr Pro Asn Pro Ala Leu *
          355          360          365 366

```

<210> 883
 <211> 58
 <212> PRT
 <213> Homo sapiens

```

<400> 883
Met Val Lys Arg Lys Ser Trp Thr Lys Trp Cys Gly Trp Leu Thr Val
 1          5          10          15
Val Arg Phe Leu Ala Arg Gly Phe Glu Met His Leu Lys Ser Cys Ser
          20          25          30
Arg Leu Leu Phe Ser Glu Leu Ala Phe Ala Phe Phe Glu Phe Ser
          35          40          45
Leu Lys Thr Val Thr Leu Arg Ala Phe *
          50          55          57

```

<210> 884
 <211> 54
 <212> PRT
 <213> Homo sapiens

```

<400> 884
Met Cys Leu Met Lys Gln Ile Ile Tyr Leu Leu Tyr Val Gly Leu Cys
 1          5          10          15
Ser Ile Leu Thr Ala Phe Leu Phe Thr Pro His His Val Leu Glu Arg
          20          25          30
Tyr Arg Tyr Tyr Cys Pro Asp Phe Arg Glu Ile Lys Lys Leu Gly Gln
          35          40          45
Gly Tyr Thr Thr Asn *
          50          53

```

<210> 885
 <211> 103
 <212> PRT
 <213> Homo sapiens

```

<400> 885
Met Lys Glu Ala Leu Leu Lys Cys Ser Arg Leu Ala Arg Gly Leu Leu

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```

      1           5           10           15
Leu Cys Leu Asp Cys Ala Asn Asp His Arg Ser Pro Val Glu Arg Asn
      20           25           30
Ala Gln Thr Thr Leu Ile Leu His Ser Ser Leu Tyr Ser Leu Ser Leu
      35           40           45
Gly Asn Gln Leu Gln Gly Gly Gly Glu Met Ala Thr Thr Gly Gly Ser
      50           55           60
Thr Gln Gln Ala Lys Thr Tyr Gly Gly Leu Phe Gln Ile Gly Ala Met
      65           70           75           80
Glu Pro Ala Leu Phe Leu Leu Phe Ile Phe Leu Leu Ala Ser Phe Trp
      85           90           95
Val His Arg Ala Ile Glu *
      100          102

```

<210> 886
 <211> 48
 <212> PRT
 <213> Homo sapiens

```

      <400> 886
Met Leu Glu Thr Phe Leu Phe Lys Leu Phe Leu Phe Phe Thr Leu Leu
      1           5           10           15
Val Asn Leu Phe Ile Thr Asn Asp Gln Leu Ser Val Gly Ser Ile Phe
      20           25           30
Leu Ser Phe Gln Leu Pro Ala Phe Phe Leu Asp Met Ala Glu Phe *
      35           40           45           47

```

<210> 887
 <211> 47
 <212> PRT
 <213> Homo sapiens

```

      <400> 887
Met Thr Phe Leu Leu His Val Leu Val Thr Ala Leu Ser Ser His Ser
      1           5           10           15
Thr Gly Arg Arg Gly Thr Asn Cys Phe Met Leu Leu Ser Ser Gly Asn
      20           25           30
His Pro Ile Pro Cys Gly Ser Leu Thr Pro Tyr Pro His Leu *
      35           40           45           46

```

<210> 888
 <211> 62
 <212> PRT
 <213> Homo sapiens

```

      <400> 888
Met Val Tyr Leu Pro Val Ser Leu Asn Gly Leu Arg Leu Ala Cys Phe
      1           5           10           15
Ser Tyr Val Leu Ala Pro Ile Lys Val Lys Pro Gly Gly Gly Ser Glu
      20           25           30
Thr Arg Asp Gly Phe Arg Ile Pro Glu Ser Thr Pro Ser Leu Lys Ala
      35           40           45
Gly Tyr Cys Asp His Lys His Phe Leu Pro Thr Ile His Leu
      50           55           60           62

```

<210> 889
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 889
 Met Thr Leu Leu Asn Leu Tyr Tyr Leu Asn Ser Phe Leu Leu Tyr Ser
 1 5 10 15
 Lys Arg Phe Glu Gly Ile Ser Phe Cys Val Gln Lys Val Ser Ile Ile
 20 25 30
 Leu Cys Ile His Tyr Leu Arg Ser Thr Thr Ile Trp Asn Lys Leu Phe
 35 40 45
 Phe Arg Asp Val Ser Ala *
 50 54

<210> 890
 <211> 181
 <212> PRT
 <213> Homo sapiens

<400> 890
 Met His Phe Pro Val Asn Cys Phe Phe Lys Ser Leu His Ile Phe Leu
 1 5 10 15
 Leu Leu Gln Val Phe Leu Ala Thr Phe Leu Arg Lys Lys Leu Ser Lys
 20 25 30
 Val Ala Phe Ser Cys Leu Val Glu Phe Phe Tyr Tyr Cys Tyr Tyr Phe
 35 40 45
 Leu Asp Phe Ala Ser Ser Val Ser Phe Leu Phe Cys Phe Val Leu Leu
 50 55 60
 Leu Arg Gln Ser Leu Thr Leu Ser Pro Arg Leu Glu Cys Ser Asp Thr
 65 70 75 80
 Ile Leu Ala His Cys Asn Leu Arg Leu Pro Gly Ser Arg Tyr Ser Ser
 85 90 95
 Ala Ser Thr Ser Arg Val Ala Gly Ile Thr Gly Val His His His Thr
 100 105 110
 Tyr Val Asn Phe Val Trp Thr Val Gln Lys Ala Val His Cys Val Gly
 115 120 125
 Gln Ala Ser Trp Glu Leu Leu Thr Ser Arg Asp Pro Pro Thr Leu Ala
 130 135 140
 Ser His Arg Ala Gly Ile Thr Gly Met Ser His Arg Thr Trp Ala Lys
 145 150 155 160
 Val Phe Leu Lys Arg Val Ile Phe Leu Asn Arg Glu Tyr Asp Leu Thr
 165 170 175
 Met Phe Cys Phe Leu
 180 181

<210> 891
 <211> 67
 <212> PRT
 <213> Homo sapiens

<400> 891
 Met Leu Val Pro Thr Phe Leu Ser Leu Val Cys Asp Phe Ser Leu Phe
 1 5 10 15
 Val Leu Leu Leu Leu Gly Cys Leu Ser Phe Leu Leu Pro Pro His Leu

20 25 30
 Pro Cys Thr Ser Phe Pro Leu His Leu Trp Arg Leu Leu Ser Pro Phe
 35 40 45
 Ile Ser Phe Leu Asp Leu Leu Leu Leu Ser Tyr Lys Met Asn Cys
 50 55 60
 Ile Ile *
 65 66

<210> 892
 <211> 75
 <212> PRT
 <213> Homo sapiens

<400> 892
 Met Leu Pro Leu Phe Lys His Ser Pro Val Arg Ile Phe Leu Phe Cys
 1 5 10 15
 Leu Asn Thr Gln His Leu Ser Val Arg Asn Asn Phe Val Phe Asn Cys
 20 25 30
 Val Ser Pro Gly Ile Leu Pro Ile Ser Leu Cys Leu Ala Phe Asn His
 35 40 45
 Asp Arg Ser Thr Phe Phe Phe Ser Ile Ile Leu Leu Leu Lys Ala Leu
 50 55 60
 Ile Ile Leu Ser Ser Leu Leu Gln Thr Lys *
 65 70 74

<210> 893
 <211> 79
 <212> PRT
 <213> Homo sapiens

<400> 893
 Met Lys Pro Ile Leu Leu Val Leu Ser Ser Ile Thr Arg Ala Leu Leu
 1 5 10 15
 Leu Gln Ile Ser Ser Val Ser Trp Gln Ser Cys Met Trp Arg Ala Met
 20 25 30
 Pro Asp Cys Leu Gln Thr Asp Tyr Pro Ile Ser Leu Gly Phe His Gln
 35 40 45
 Arg Thr Arg Leu Leu Asp Ala Leu Cys Pro Val Thr Gln Cys His His
 50 55 60
 Ser Ala Trp Pro Cys Val Cys Gln Gly Ala Gln Thr Pro Ile *
 65 70 75 78

<210> 894
 <211> 79
 <212> PRT
 <213> Homo sapiens

<400> 894
 Met Cys Cys Glu Leu Leu Ala Val Val Ile Ala Thr Leu Ile Ile Lys
 1 5 10 15
 Ile Gly Leu Val Val Leu Leu Tyr Phe Ile Lys Leu Leu Ile His Ile
 20 25 30
 Glu Phe Ile Lys Arg His Ser Ile Leu Lys Cys Glu Ser Ile Phe Asn
 35 40 45
 Leu Asn Val Gly Ile Arg Met Tyr Pro Gly Gln Val Asn Phe Cys Glu

50 55 60
 Thr Leu Gln Met Leu Asp Gly Phe Gly Arg Ile Phe Gln Thr Lys
 65 70 75 79

<210> 895
 <211> 860
 <212> PRT
 <213> Homo sapiens

<400> 895
 Met Ala Cys Arg Trp Ser Thr Lys Glu Ser Pro Arg Trp Arg Ser Ala
 1 5 10 15
 Leu Leu Leu Leu Phe Leu Ala Gly Val Tyr Gly Asn Gly Ala Leu Ala
 20 25 30
 Glu His Ser Glu Asn Val His Ile Ser Gly Val Ser Thr Ala Cys Gly
 35 40 45
 Glu Thr Pro Glu Gln Ile Arg Ala Pro Ser Gly Ile Ile Thr Ser Pro
 50 55 60
 Gly Trp Pro Ser Glu Tyr Pro Ala Lys Ile Asn Cys Ser Trp Phe Ile
 65 70 75 80
 Arg Ala Asn Pro Gly Glu Ile Ile Thr Ile Ser Phe Gln Asp Phe Asp
 85 90 95
 Ile Gln Gly Ser Arg Arg Cys Asn Leu Asp Trp Leu Thr Ile Glu Thr
 100 105 110
 Tyr Lys Asn Ile Glu Ser Tyr Arg Ala Cys Gly Ser Thr Ile Pro Pro
 115 120 125
 Pro Tyr Ile Ser Ser Gln Asp His Ile Trp Ile Arg Phe His Ser Asp
 130 135 140
 Asp Asn Ile Ser Arg Lys Gly Phe Arg Leu Ala Tyr Phe Ser Gly Lys
 145 150 155 160
 Ser Glu Glu Pro Asn Cys Ala Cys Asp Gln Phe Arg Cys Gly Asn Gly
 165 170 175
 Lys Cys Ile Pro Glu Ala Trp Lys Cys Asn Asn Met Asp Glu Cys Gly
 180 185 190
 Asp Arg Ser Asp Glu Glu Ile Cys Ala Lys Glu Ala Asn Pro Pro Thr
 195 200 205
 Ala Ala Ala Phe Gln Pro Cys Ala Tyr Asn Gln Phe Gln Cys Leu Ser
 210 215 220
 Arg Phe Thr Lys Val Tyr Thr Cys Leu Pro Glu Ser Leu Lys Cys Asp
 225 230 235 240
 Gly Asn Ile Asp Cys Leu Asp Leu Gly Asp Glu Ile Asp Cys Asp Val
 245 250 255
 Pro Thr Cys Gly Gln Trp Leu Lys Tyr Phe Tyr Gly Thr Phe Asn Ser
 260 265 270
 Pro Asn Tyr Pro Asp Phe Tyr Pro Pro Gly Ser Asn Cys Thr Trp Leu
 275 280 285
 Ile Asp Thr Gly Asp His Arg Lys Val Ile Leu Arg Phe Thr Asp Phe
 290 295 300
 Lys Leu Asp Gly Thr Gly Tyr Gly Asp Tyr Val Lys Ile Tyr Asp Gly
 305 310 315 320
 Leu Glu Glu Asn Pro His Lys Leu Leu Arg Val Leu Thr Ala Phe Asp
 325 330 335
 Ser His Ala Pro Leu Thr Val Val Ser Ser Gly Gln Ile Arg Val
 340 345 350
 His Phe Cys Ala Asp Lys Val Asn Ala Ala Arg Gly Phe Asn Ala Thr
 355 360 365
 Tyr Gln Val Asp Gly Phe Cys Leu Pro Trp Glu Ile Pro Cys Gly Gly
 370 375 380
 Asn Trp Gly Cys Tyr Thr Glu Gln Gln Arg Cys Asp Gly Tyr Trp His
 385 390 395 400
 Cys Pro Asn Gly Arg Asp Glu Thr Asn Cys Thr Met Cys Gln Lys Glu

405 410 415
 Glu Phe Pro Cys Ser Arg Asn Gly Val Cys Tyr Pro Arg Ser Asp Arg
 420 425 430
 Cys Asn Tyr Gln Asn His Cys Pro Asn Gly Ser Asp Glu Lys Asn Cys
 435 440 445
 Phe Phe Cys Gln Pro Gly Asn Phe His Cys Lys Asn Asn Arg Cys Val
 450 455 460
 Phe Glu Ser Trp Val Cys Asp Ser Gln Asp Asp Cys Gly Asp Gly Ser
 465 470 475 480
 Asp Glu Glu Asn Cys Pro Val Ile Val Pro Thr Arg Val Ile Thr Ala
 485 490 495
 Ala Val Ile Gly Ser Leu Ile Cys Gly Leu Leu Leu Val Ile Ala Leu
 500 505 510
 Gly Cys Thr Cys Lys Leu Tyr Ser Leu Arg Met Phe Glu Arg Arg Ser
 515 520 525
 Phe Glu Thr Gln Leu Ser Arg Val Glu Ala Glu Leu Leu Arg Arg Glu
 530 535 540
 Ala Pro Pro Ser Tyr Gly Gln Leu Ile Ala Gln Gly Leu Ile Pro Pro
 545 550 555 560
 Val Glu Asp Phe Pro Val Cys Ser Pro Asn Gln Ala Ser Val Leu Glu
 565 570 575
 Asn Leu Arg Leu Ala Val Arg Ser Gln Leu Gly Phe Thr Ser Val Arg
 580 585 590
 Leu Pro Met Ala Gly Arg Ser Ser Asn Ile Trp Asn Arg Ile Phe Asn
 595 600 605
 Phe Ala Arg Ser Arg His Ser Gly Ser Leu Ala Leu Val Ser Ala Asp
 610 615 620
 Gly Asp Glu Val Val Pro Ser Gln Ser Thr Ser Arg Glu Pro Glu Arg
 625 630 635 640
 Asn His Thr His Arg Ser Leu Phe Ser Val Glu Ser Asp Asp Thr Asp
 645 650 655
 Thr Glu Asn Glu Arg Arg Asp Met Ala Gly Ala Ser Gly Gly Val Ala
 660 665 670
 Ala Pro Leu Pro Gln Lys Val Pro Pro Thr Thr Ala Val Glu Ala Thr
 675 680 685
 Val Gly Ala Cys Ala Ser Ser Ser Thr Gln Ser Thr Arg Gly Gly His
 690 695 700
 Ala Asp Asn Gly Arg Asp Val Thr Ser Val Glu Pro Pro Ser Val Ser
 705 710 715 720
 Pro Ala Arg His Gln Leu Thr Ser Ala Leu Ser Arg Met Thr Gln Gly
 725 730 735
 Leu Arg Trp Val Arg Phe Thr Leu Gly Arg Ser Ser Ser Leu Ser Gln
 740 745 750
 Asn Gln Ser Pro Leu Arg Gln Leu Asp Asn Gly Val Ser Gly Arg Glu
 755 760 765
 Asp Asp Asp Asp Val Glu Met Leu Ile Pro Ile Ser Asp Gly Ser Ser
 770 775 780
 Asp Phe Asp Val Asn Asp Cys Ser Arg Pro Leu Leu Asp Leu Ala Ser
 785 790 795 800
 Asp Gln Gly Gln Gly Leu Arg Gln Pro Tyr Asn Ala Thr Asn Pro Gly
 805 810 815
 Val Arg Pro Ser Asn Arg Asp Gly Pro Cys Glu Arg Cys Gly Ile Val
 820 825 830
 His Thr Ala Gln Ile Pro Asp Thr Cys Leu Glu Val Thr Leu Lys Asn
 835 840 845
 Glu Thr Ser Asp Asp Glu Ala Leu Leu Leu Cys *
 850 855 859

<210> 896

<211> 54

<212> PRT

<213> Homo sapiens

<400> 896

```

Met Ser Asn Arg Thr Arg Ile Arg Thr His Val Asn Leu Cys Cys Phe
 1          5          10          15
Cys Arg Tyr Thr Thr Pro Lys Met Ser Phe Ser Ser Ala Cys Val Ser
          20          25          30
Leu Cys Leu Met Leu Leu Phe Cys Ser Pro Pro Leu Leu Leu Leu
          35          40          45
Leu Ser Ser Phe Val *
          50          53

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<210> 897

<211> 367

<212> PRT

<213> Homo sapiens

<400> 897

```

Met Ala Ser Met Ala Ala Val Leu Thr Trp Ala Leu Ala Leu Leu Ser
 1          5          10          15
Ala Phe Ser Ala Thr Gln Ala Arg Lys Gly Phe Trp Asp Tyr Phe Ser
          20          25          30
Gln Thr Ser Gly Asp Lys Gly Arg Val Glu Gln Ile His Gln Gln Lys
          35          40          45
Met Ala Arg Glu Pro Ala Thr Leu Lys Asp Ser Leu Glu Gln Asp Leu
          50          55          60
Asn Asn Met Asn Lys Phe Leu Glu Lys Leu Arg Pro Leu Ser Gly Ser
          65          70          75          80
Glu Ala Pro Arg Leu Pro Gln Asp Pro Val Gly Met Arg Arg Gln Leu
          85          90          95
Gln Glu Glu Leu Glu Glu Val Lys Ala Arg Leu Gln Pro Tyr Met Ala
          100          105          110
Glu Ala His Glu Leu Val Gly Trp Asn Leu Glu Gly Leu Arg Gln Gln
          115          120          125
Leu Lys Pro Tyr Thr Met Asp Leu Met Glu Gln Val Ala Leu Arg Val
          130          135          140
Gln Glu Leu Gln Glu Gln Leu Arg Val Val Gly Glu Asp Thr Lys Ala
          145          150          155          160
Gln Leu Leu Gly Gly Val Asp Glu Ala Trp Ala Leu Leu Gln Gly Leu
          165          170          175
Gln Ser Arg Val Val His His Thr Gly Arg Phe Lys Glu Leu Phe His
          180          185          190
Pro Tyr Ala Glu Ser Leu Val Ser Gly Ile Gly Arg His Val Gln Glu
          195          200          205
Leu His Arg Ser Val Ala Pro His Ala Pro Ala Ser Pro Ala Arg Leu
          210          215          220
Ser Arg Cys Val Gln Val Leu Ser Arg Lys Leu Thr Leu Lys Ala Lys
          225          230          235          240
Ala Leu His Ala Arg Ile Gln Gln Asn Leu Asp Gln Leu Arg Glu Glu
          245          250          255
Leu Ser Arg Ala Phe Ala Gly Thr Gly Thr Glu Glu Gly Ala Gly Pro
          260          265          270
Asp Pro Gln Met Leu Ser Glu Glu Val Arg Gln Arg Leu Gln Ala Phe
          275          280          285
Arg Gln Asp Thr Tyr Leu Gln Ile Ala Ala Phe Thr Arg Ala Ile Asp
          290          295          300
Gln Glu Thr Glu Glu Val Gln Gln Gln Leu Ala Pro Pro Pro Pro Gly
          305          310          315          320
His Ser Ala Phe Ala Pro Glu Phe Gln Gln Thr Asp Ser Gly Lys Val
          325          330          335
Leu Ser Lys Leu Gln Ala Arg Leu Asp Asp Leu Trp Glu Asp Ile Thr

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	<400> 899															
Met 1	Glu	Phe	Gly	Leu 5	Ser	Trp	Leu	Phe	Leu 10	Val	Ala	Ile	Leu	Lys 15	Gly	
Val	Gln	Cys	Glu 20	Val	Gln	Leu	Val	Glu 25	Ser	Gly	Gly	Gly	Leu 30	Val	Gln	
Pro	Gly	Gly 35	Ser	Leu	Arg	Leu	Ser 40	Cys	Ala	Ala	Ser	Gly 45	Phe	Thr	Phe	
Ser	Ser 50	Tyr	Ala	Met	Ser	Trp 55	Val	Arg	Gln	Ala	Pro 60	Gly	Lys	Gly	Leu	
Glu 65	Trp	Val	Ser	Gly	Phe 70	Thr	Gly	Ser	Gly	Gly 75	Ser	Gly	Gly	Ser	Thr 80	
Tyr	Tyr	Ala	Asp	Ser 85	Val	Lys	Gly	Arg	Phe 90	Thr	Ile	Ser	Arg	Asp 95	Asn	
Ser	Lys	Asn	Thr 100	Leu	Phe	Leu	Gln	Met 105	Asn	Ser	Leu	Arg	Ala	Glu 110	Asp	
Thr	Ala	Val	Tyr 115	Tyr	Cys	Ala	Lys 120	Gly	Leu	Leu	Pro	Pro 125	Arg	Trp	Ala	
Tyr	Arg 130	Val	Tyr	Glu	Asp 135	Ser	Gly	Ile	Phe	Phe	Asp 140	Tyr	Trp	Gly	Gln	
Gly 145	Thr	Leu	Val	Thr	Val 150	Ser	Ser	Ser	Asp	Ile 155	Gln	Met	Thr	Gln	Ser 160	
Pro	Ser	Thr	Leu 165	Ser	Ala	Ser	Val	Gly	Asp 170	Arg	Val	Thr	Ile	Thr	Cys 175	
Arg	Ala	Ser	Gln 180	Ser	Ile	Ser	Ser	Trp 185	Leu	Ala	Trp	Tyr	Gln	Gln	Lys	
Pro	Gly	Lys 195	Ala	Pro	Lys	Leu	Leu 200	Ile	Tyr	Lys	Ala	Ser 205	Ser	Leu	Gln	
Ser	Gly 210	Val	Pro	Ser	Arg	Phe 215	Ser	Gly	Ser	Gly	Ser 220	Gly	Thr	Asp	Phe	
Thr 225	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Pro	Asp	Asp 235	Phe	Ala	Thr	Tyr	Tyr 240	
Cys	Gln	Gln	Leu 245	Ser	Thr	Tyr	Val	Trp	Thr 250	Phe	Gly	Gln	Gly	Thr	Lys 255	
Val	Asp	Ile	Lys 260	Arg	Thr	Val	Ala	Ala 265	Pro	Ser	Val	Phe	Ile	Phe	Pro	
Pro	Ser	Asp	Glu	Gln	Leu	Lys	Ser	Gly	Thr	Ala	Ser	Val	Val	Cys	Leu	

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      275              280              285
Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp
      290              295              300
Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp
305              310              315              320
Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys
      325              330              335
Ala Asp Tyr Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln
      340              345              350
Gly Leu Ser Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys *
      355              360              365              367

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<210> 900
<211> 56
<212> PRT
<213> Homo sapiens

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```

      <400> 900
Met Leu Cys Gly Asn Thr Gln Leu Leu Phe Thr Val Ala Ile Ile Leu
  1              5              10              15
Leu Tyr Val Thr Cys Leu Leu His Trp Thr Phe Leu His Leu Glu Trp
      20              25              30
Arg Val Ser Glu Gly Arg His His Asp Pro Leu Ser Thr Thr Leu Met
      35              40              45
His Glu Lys Met Asn Asp Asn *
  50              55

```

```

<210> 901
<211> 213
<212> PRT
<213> Homo sapiens

```

```

      <400> 901
Met Tyr Arg Leu Ser Ser Ser Met Leu Leu Arg Ala Leu Ala Gln Ala
  1              5              10              15
Met Arg Thr Gly His Leu Ile Gly Gln Ser Leu His Ser Ser Ala Val
      20              25              30
Ala Ala Thr Tyr Lys Tyr Val Asn Lys Lys Glu Gln Glu Ser Glu Val
      35              40              45
Asp Met Lys Ser Glu Thr Asp Asn Ala Ala Arg Ile Leu Met Trp Thr
  50              55              60
Glu Leu Ile Arg Gly Leu Gly Met Thr Leu Arg Tyr Leu Phe Arg Glu
  65              70              75              80
Pro Ala Thr Ile Asn Tyr Pro Phe Glu Lys Gly Pro Leu Ser Pro Arg
      85              90              95
Phe Arg Gly Glu His Ala Leu Arg Arg Tyr Pro Ser Gly Glu Glu Arg
      100              105              110
Cys Ile Ala Cys Lys Leu Cys Glu Ala Ile Cys Pro Ala Gln Ala Ile
      115              120              125
Thr Ile Glu Ala Glu Pro Arg Ala Asp Gly Ser Arg Arg Thr Thr Arg
      130              135              140
Tyr Asp Ile Asp Met Thr Lys Cys Ile Tyr Cys Gly Phe Cys Gln Glu
  145              150              155              160
Ala Cys Pro Val Asp Ala Ile Val Glu Gly Pro Asn Phe Glu Phe Ser
      165              170              175
Thr Glu Thr His Glu Glu Leu Leu Tyr Asn Lys Glu Lys Leu Leu Asn
      180              185              190
Asn Gly Asp Lys Trp Glu Ala Glu Ile Ala Ala Asn Ile Gln Ala Asp

```

195 200 205
 Tyr Leu Tyr Arg *
 210 212

<210> 902
 <211> 70
 <212> PRT
 <213> Homo sapiens

<400> 902
 Met Ile Glu Leu Ala Phe Ala Ser Phe Leu Lys Cys Ala Ser Phe Ser
 1 5 10 15
 Leu Leu Ile Leu Phe Ser Phe Ser Phe Pro Leu Trp Phe Phe Leu Ser
 20 25 30
 Cys Phe Ala Cys Ser Tyr Ser Phe Ser Cys Leu Leu Ser Arg Ile Ser
 35 40 45
 Ile Leu Ser Pro Phe Cys His Leu Leu Pro Arg Gln Ser His Asp Leu
 50 55 60
 Cys Thr Asn Asp Leu *
 65 69

<210> 903
 <211> 63
 <212> PRT
 <213> Homo sapiens

<400> 903
 Met Ser Val Leu Ile Trp Cys Leu Ile Phe Phe Pro Leu Glu Tyr Ser
 1 5 10 15
 Arg Pro Lys Arg Gly Leu Lys Val Asp Asn Val Cys Phe Ser Thr Val
 20 25 30
 Ala Leu Ser Thr Gly Ser Arg Ile Ser Asn Trp Ser Asn Cys Glu Thr
 35 40 45
 Cys Leu Leu Ala Glu Met Phe Phe Leu Asp Leu Gly Phe Ser *
 50 55 60 62

<210> 904
 <211> 319
 <212> PRT
 <213> Homo sapiens

<400> 904
 Met Ala Ala Ala Ala Val Ser Gly Ala Leu Gly Arg Ala Gly Trp Arg
 1 5 10 15
 Leu Leu Gln Leu Arg Cys Leu Pro Val Ala Arg Cys Arg Gln Ala Leu
 20 25 30
 Val Pro Arg Ala Phe His Ala Ser Ala Val Gly Leu Arg Ser Ser Asp
 35 40 45
 Glu Gln Lys Gln Gln Pro Pro Asn Ser Phe Ser Gln Gln His Ser Glu
 50 55 60
 Thr Gln Gly Ala Glu Lys Pro Asp Pro Glu Ser Ser His Ser Pro Pro
 65 70 75 80
 Arg Tyr Thr Asp Gln Gly Gly Glu Glu Glu Asp Tyr Glu Ser Glu
 85 90 95
 Glu Gln Leu Gln His Arg Ile Leu Thr Ala Ala Leu Glu Phe Val Pro

```

100      105      110
Ala His Gly Trp Thr Ala Glu Ala Ile Ala Glu Gly Ala Gln Ser Leu
115      120      125
Gly Leu Ser Ser Ala Ala Ala Ser Met Phe Gly Lys Asp Gly Ser Glu
130      135      140
Leu Ile Leu His Phe Val Thr Gln Cys Asn Thr Arg Leu Thr Arg Val
145      150      155      160
Leu Glu Glu Glu Gln Lys Leu Val Gln Leu Gly Gln Ala Glu Lys Arg
165      170      175
Lys Thr Asp Gln Phe Leu Arg Asp Ala Val Glu Thr Arg Leu Arg Met
180      185      190
Leu Ile Pro Tyr Ile Glu His Trp Pro Arg Ala Leu Ser Ile Leu Met
195      200      205
Leu Pro His Asn Ile Pro Ser Ser Leu Ser Leu Leu Thr Ser Met Val
210      215      220
Asp Asp Met Trp His Tyr Ala Gly Asp Gln Ser Thr Asp Phe Asn Trp
225      230      235      240
Tyr Thr Arg Arg Ala Met Leu Ala Ala Ile Tyr Asn Thr Thr Glu Leu
245      250      255
Val Met Met Gln Asp Ser Ser Pro Asp Phe Glu Asp Thr Trp Arg Phe
260      265      270
Leu Glu Asn Arg Val Asn Asp Ala Met Asn Met Gly His Thr Ala Lys
275      280      285
Gln Val Lys Ser Thr Gly Glu Ala Leu Val Gln Gly Leu Met Gly Ala
290      295      300
Ala Val Thr Leu Lys Asn Leu Thr Gly Leu Asn Gln Arg Arg *
305      310      315      318

```

<210> 905
 <211> 57
 <212> PRT
 <213> Homo sapiens

```

<400> 905
Met Gly His Leu Leu Cys Val Trp Gly Phe Thr Tyr Ile Leu Pro Cys
1      5      10      15
Ile Ser Leu Arg His Ser Pro Leu Gln Pro Pro Gly Trp Glu Gly Phe
20      25      30
Cys Arg Asn Val Ser Phe Pro Leu Leu Arg Ala Ser Leu Ala Pro His
35      40      45
His Arg Arg Lys Asp Gly Phe Ile *
50      55      56

```

<210> 906
 <211> 84
 <212> PRT
 <213> Homo sapiens

```

<400> 906
Met His Val Leu Ile Arg Thr Pro Cys Ser Leu Ile Leu Cys Leu Ala
1      5      10      15
Asn Ser Ser His Ala Ser Leu Pro Gly Phe Ser Ala Ser Ser Phe Leu
20      25      30
Phe Lys Glu Ser Cys Arg Leu Leu Asn Ser Ser Phe Leu Leu His
35      40      45
Gly Leu Glu Ile Leu Ser Gly Ala Ile Ala Gly Gln Cys Asn Ser Phe
50      55      60
Cys Leu Phe Ser Ile Ser Gln Gly Ser Leu Ser Phe Asn Ala Ser Cys

```

65
Pro Leu Pro *

70

75

80

<210> 907
<211> 72
<212> PRT
<213> Homo sapiens

<400> 907
Met Thr Leu Leu Trp Pro His Thr Ala Ala Cys Leu Ser Val Thr Leu
1 5 10 15
Tyr Leu Pro Ala Ser Ser Ala Lys Tyr Phe Lys Arg Gly Glu Gly Arg
20 25 30
Glu Lys Phe Ile Thr Asn Pro Thr Thr Arg Lys Lys Lys Leu Phe Trp
35 40 45
Arg Arg Gly Lys Arg Asn His Asp Gln Ala Phe Thr Gly Ile Pro Asp
50 55 60
Gln Val Ser Leu Phe Pro Phe *
65 70 71

<210> 908
<211> 98
<212> PRT
<213> Homo sapiens

<400> 908
Met Tyr Leu His Val Leu Val Leu Ser His Arg Ile Leu Leu Ser Pro
1 5 10 15
Tyr Ile Pro Ser Phe Lys Ser Val Pro Pro Val Phe Ser Ile Leu
20 25 30
Gln Met Ala Pro Met Ser Ile Leu Asp Ile Asp His Pro Arg Ser Leu
35 40 45
Gly Gly Asp Ser Ser His Phe Phe Ser Ser Val Ala Gln Ala Leu Thr
50 55 60
Phe Cys Pro Phe Ala Leu Arg Pro Phe Asn Asn Tyr Ser Leu Gln Arg
65 70 75 80
Pro Val Phe Gln Lys Ala Pro Ala Phe His His Phe Leu Val Lys Lys
85 90 95
Phe *
97

<210> 909
<211> 91
<212> PRT
<213> Homo sapiens

<400> 909
Met Phe Leu Val Phe Cys Asn Ile Ile Thr Val Ile Thr Met Thr Ser
1 5 10 15
Leu Phe Leu Ile Leu Leu Ser Cys Ile Phe Ile Leu Ile Thr Cys Cys
20 25 30
Tyr Lys Cys Arg Tyr Ile Ser Phe Thr Phe Ser Val Thr Pro
35 40 45
Ser Gly Phe Phe Val Ser Ile Leu Gln Tyr Leu Ala His Ile Leu Leu

```

      50              55              60
Leu Ile Thr Leu Gln Phe His Phe Arg Val Cys Tyr Val Asn Ile Ile
 65              70              75              80
Thr Leu Ile Pro Leu Ala Gln Ile Phe Leu *
              85              90

```

<210> 910
 <211> 59
 <212> PRT
 <213> Homo sapiens

```

      <400> 910
Met Gln Leu Trp Gly Phe Leu Asn Leu Asn Phe Pro Cys Ser Ser Leu
 1              5              10              15
Cys Phe Trp Ala Leu Gly Ser Arg Gly Phe Thr Leu Val Leu Ala Val
              20              25              30
Thr Pro Ile Asn Ser Thr Gly Trp Ala Ala His Leu Pro Gln His Val
              35              40              45
Lys Met Arg Leu Phe Ser Ile Gln Leu Phe *
              50              55              58

```

<210> 911
 <211> 73
 <212> PRT
 <213> Homo sapiens

```

      <400> 911
Met Leu Met Val Leu Lys Leu Val Ile Cys Ser Ile Phe Ile Gly Lys
 1              5              10              15
Glu Gly His Phe Val Ile Ser Tyr Leu Pro Ser Phe Ser Leu Asn Ile
              20              25              30
Gln Asp Thr Leu Lys Ser Val His Gln Pro Cys Ser Ala Leu Ser Gly
              35              40              45
Tyr Asn Met Pro Glu Lys Pro Glu Glu Cys Ser Ile Lys Glu Arg His
              50              55              60
Pro Tyr Ser Gln Arg Leu Phe Leu Glu
 65              70              73

```

<210> 912
 <211> 97
 <212> PRT
 <213> Homo sapiens

```

      <400> 912
Met Gly Ile Ser Cys Lys Leu Leu Leu Thr Arg Val Cys Tyr Leu
 1              5              10              15
Ile Thr Pro Leu Asp Leu Glu Arg Phe Pro Phe Pro Asn Thr Glu Gln
              20              25              30
Val Thr Phe Pro Glu Arg Arg Val Ser Val Phe Leu Leu Pro Leu Ser
              35              40              45
Trp Cys Leu Asp Thr Arg Leu Pro Arg Glu Pro Gly Cys Arg Cys Arg
              50              55              60
His Ser Ser Pro Gln Asp Val Val Gly Gly Ser His Leu Val Thr Thr
 65              70              75              80
Thr Leu Leu Ser Leu Pro Ala Arg Glu Phe Trp Thr Ser Cys Ile Leu

```

*

<210> 913

<211> 46

<212> PRT

<213> Homo sapiens

<400> 913

Met	Ile	Leu	Phe	His	Cys	Glu	Lys	Leu	Tyr	Ala	Leu	Arg	Ser	Phe	Asp
1				5					10					15	
Phe	Trp	Phe	Met	Leu	Glu	Leu	Leu	Ser	Thr	Trp	Pro	Arg	Ala	Leu	Gly
			20					25					30		
Leu	Leu	Cys	Pro	Gly	Leu	Ala	Ile	Glu	Ala	His	Glu	Gly	*		
		35					40					45			

<211> 79

<212> PRT

<213> Homo sapiens

<400> 914

Met	Lys	Thr	Leu	Lys	Ile	Phe	Thr	Tyr	Tyr	Phe	Leu	Ser	Leu	Ser	Asn
1				5					10					15	
Ile	Phe	Ile	Leu	Thr	Ile	Gly	Leu	Thr	Cys	Ala	Ser	Gly	Pro	Leu	Asp
			20					25					30		
Phe	Thr	Pro	Val	Phe	Leu	Leu	Gly	Lys	Gly	Ser	Leu	Lys	Cys	Lys	Tyr
		35					40					45			
Gly	Pro	Val	Ala	His	Leu	Pro	Pro	Glu	Ala	Leu	Glu	Ser	Gly	Pro	Gln
	50					55					60				
Ile	Pro	Ser	Gly	Cys	Asn	Trp	Lys	Glu	Ile	Pro	Thr	Ser	Ser	*	
65					70					75			78		

<211> 87

<212> PRT

<213> Homo sapiens

<400> 915

Met	Trp	Leu	Phe	Cys	Ala	Trp	Val	Ser	Thr	Trp	Gly	Gln	Gly	Cys	Pro
1				5					10					15	
Pro	Gly	Arg	Gly	Gln	Met	Ile	Tyr	Ala	Ser	His	His	Leu	Ser	Val	His
			20					25					30		
Thr	Thr	Ser	Pro	His	His	Trp	Leu	Ser	Ala	Trp	Ala	Leu	Gln	Gly	Gly
		35					40					45			
Ala	Val	Phe	Pro	Glu	Leu	Ala	His	Gly	Ala	Ser	Ser	Ala	Ser	Ser	Gly
	50					55					60				
Gln	Ala	Asp	Asp	Ser	Thr	Cys	Ser	Phe	Cys	Ser	Pro	Trp	Arg	Val	Ser
65					70						75				80
Ala	Glu	His	Lys	Ser	Leu	Thr									
				85		87									

<210> 916
 <211> 369
 <212> PRT
 <213> Homo sapiens

<400> 916
 Met Trp Pro Ala Leu Leu Leu Ser His Leu Leu Pro Leu Trp Pro Leu
 1 5 10 15
 Leu Leu Leu Pro Leu Pro Pro Pro Ala Gln Asp Ser Ser Ser Ser Pro
 20 25 30
 Arg Thr Pro Pro Ala Pro Ala Arg Pro Pro Cys Ala Arg Gly Gly Pro
 35 40 45
 Ser Ala Pro Arg His Val Cys Val Trp Glu Arg Ala Pro Pro Pro Ser
 50 55 60
 Arg Ser Pro Arg Val Pro Arg Ser Arg Arg Gln Val Leu Pro Gly Thr
 65 70 75 80
 Ala Pro Pro Ala Thr Pro Ser Gly Phe Glu Glu Gly Pro Pro Ser Ser
 85 90 95
 Gln Tyr Pro Trp Ala Ile Val Trp Gly Pro Thr Val Ser Arg Glu Asp
 100 105 110
 Gly Gly Asp Pro Asn Ser Ala Asn Pro Gly Phe Leu Asp Tyr Gly Phe
 115 120 125
 Ala Ala Pro His Gly Leu Ala Thr Pro His Pro Asn Ser Asp Ser Met
 130 135 140
 Arg Gly Asp Gly Asp Gly Leu Ile Leu Gly Glu Ala Pro Ala Thr Leu
 145 150 155 160
 Arg Pro Phe Leu Phe Gly Gly Arg Gly Glu Gly Val Asp Pro Gln Leu
 165 170 175
 Tyr Val Thr Ile Thr Ile Ser Ile Ile Ile Val Leu Val Ala Thr Gly
 180 185 190
 Ile Ile Phe Lys Phe Cys Trp Asp Arg Ser Gln Lys Arg Arg Arg Pro
 195 200 205
 Ser Gly Gln Gln Gly Ala Leu Arg Gln Glu Glu Ser Gln Gln Pro Leu
 210 215 220
 Thr Asp Leu Ser Pro Ala Gly Val Thr Val Leu Gly Ala Phe Gly Asp
 225 230 235 240
 Ser Pro Thr Pro Thr Pro Asp His Glu Glu Pro Arg Gly Gly Pro Arg
 245 250 255
 Pro Gly Met Pro His Pro Lys Gly Ala Pro Ala Phe Gln Leu Asn Arg
 260 265 270
 Ser Leu Ser Gly Gln Arg Phe Leu His Thr Leu Pro Leu Met Cys Val
 275 280 285
 Ser Arg Pro Asp Val Val Val Val Cys Gly Val Leu Thr Leu Ser Leu
 290 295 300
 Met Asn Thr His Pro Pro Arg Phe Arg Ser Pro Cys Met Leu Leu Gln
 305 310 315 320
 Arg Trp Val Gly Gly Glu Leu Gly Ala Pro Trp Ala Leu Ile Gly His
 325 330 335
 Gly Leu Val Pro Phe His Thr Ile Cys Phe Ser Val Ser Pro Ser Tyr
 340 345 350
 Ser Lys Asp Ala Gly Ile Thr Leu Arg Ala Pro Pro Trp Glu Met Gly
 355 360 365 368
 *

<210> 917
 <211> 345
 <212> PRT
 <213> Homo sapiens

<400> 917

```

Met Asp Phe Leu Val Leu Phe Leu Phe Tyr Leu Ala Ser Val Leu Met
 1          5          10          15
Gly Leu Val Leu Ile Cys Val Cys Ser Lys Thr His Ser Leu Lys Gly
          20          25          30
Leu Ala Arg Gly Gly Ala Gln Ile Phe Ser Cys Ile Ile Pro Glu Cys
          35          40          45
Leu Gln Arg Ala Met His Gly Leu Leu His Tyr Leu Phe His Thr Arg
          50          55          60
Asn His Thr Phe Ile Val Leu His Leu Val Leu Gln Gly Met Val Tyr
          65          70          75          80
Thr Glu Tyr Thr Trp Glu Val Phe Gly Tyr Cys Gln Glu Leu Glu Leu
          85          90          95
Ser Leu His Tyr Leu Leu Leu Pro Tyr Leu Leu Leu Gly Val Asn Leu
          100          105          110
Phe Phe Phe Thr Leu Thr Cys Gly Thr Asn Pro Gly Ile Ile Thr Lys
          115          120          125
Ala Asn Glu Leu Leu Phe Leu His Val Tyr Glu Phe Asp Glu Val Met
          130          135          140
Phe Pro Lys Asn Val Arg Cys Ser Thr Cys Asp Leu Arg Lys Pro Ala
          145          150          155          160
Arg Ser Lys His Cys Ser Val Cys Asn Trp Cys Val His Arg Phe Asp
          165          170          175
His His Cys Val Trp Val Asn Asn Cys Ile Gly Ala Trp Asn Ile Arg
          180          185          190
Tyr Phe Leu Ile Tyr Val Leu Thr Leu Thr Ala Ser Ala Ala Thr Val
          195          200          205
Ala Ile Val Ser Thr Thr Phe Leu Val His Leu Val Val Met Ser Asp
          210          215          220
Leu Tyr Gln Glu Thr Tyr Ile Asp Asp Leu Gly His Leu His Val Met
          225          230          235          240
Asp Thr Val Phe Leu Ile Gln Tyr Leu Phe Leu Thr Phe Pro Arg Ile
          245          250          255
Val Phe Met Leu Gly Phe Val Val Val Leu Ser Phe Leu Leu Gly Gly
          260          265          270
Tyr Leu Leu Phe Val Leu Tyr Leu Ala Ala Thr Asn Gln Thr Thr Asn
          275          280          285
Glu Trp Tyr Arg Gly Asp Trp Ala Trp Cys Gln Arg Cys Pro Leu Val
          290          295          300
Ala Trp Pro Pro Ser Ala Glu Pro Gln Val His Arg Asn Ile His Ser
          305          310          315          320
His Gly Leu Arg Ser Asn Leu Gln Glu Ile Phe Leu Pro Ala Phe Pro
          325          330          335
Cys His Glu Arg Lys Lys Gln Glu *
          340          344

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<210> 918

<211> 96

<212> PRT

<213> Homo sapiens

<400> 918

```

Met Glu Leu Val Leu Val Phe Leu Cys Ser Leu Leu Ala Pro Met Val
 1          5          10          15
Leu Ala Ser Ala Ala Glu Lys Glu Lys Glu Met Asp Pro Phe His Tyr
          20          25          30
Asp Tyr Gln Thr Leu Arg Ile Gly Gly Leu Val Phe Ala Val Val Leu
          35          40          45
Phe Ser Val Gly Ile Leu Leu Ile Leu Ser Arg Arg Cys Lys Cys Ser
          50          55          60
Phe Asn Gln Lys Pro Arg Ala Pro Gly Asp Glu Glu Ala Gln Val Glu

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<210> 919
<211> 51
<212> PRT
<213> Homo sapiens
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<210> 920
<211> 99
<212> PRT
<213> Homo sapiens
```

```
<210> 921
<211> 99
<212> PRT
<213> Homo sapiens
```

720

65 70 75 80
 Ala Gln Asp Ile His Ser Gln Asn Gly Leu Arg Asp Ala Leu Met Leu
 85 90 95
 Asp Phe *
 98

<210> 922
 <211> 353
 <212> PRT
 <213> Homo sapiens

<400> 922
 Met Arg Ser Leu Gly Ala Leu Leu Leu Leu Leu Ser Ala Cys Leu Ala
 1 5 10 15
 Val Ser Ala Gly Pro Val Pro Thr Pro Pro Asp Asn Ile Gln Val Gln
 20 25 30
 Glu Asn Phe Asn Ile Ser Arg Ile Tyr Gly Lys Trp Tyr Asn Leu Ala
 35 40 45
 Ile Gly Ser Thr Cys Pro Trp Leu Lys Lys Ile Met Asp Arg Met Thr
 50 55 60
 Val Ser Thr Leu Val Leu Gly Glu Gly Ala Thr Glu Ala Glu Ile Ser
 65 70 75 80
 Met Thr Ser Thr Arg Trp Arg Lys Gly Val Cys Glu Glu Thr Ser Gly
 85 90 95
 Ala Tyr Glu Lys Thr Asp Thr Asp Gly Lys Phe Leu Tyr His Lys Ser
 100 105 110
 Lys Trp Asn Ile Thr Met Glu Ser Tyr Val Val His Thr Asn Tyr Asp
 115 120 125
 Glu Tyr Ala Ile Phe Leu Thr Lys Lys Phe Ser Arg His His Gly Pro
 130 135 140
 Thr Ile Thr Ala Lys Leu Tyr Gly Arg Ala Pro Gln Leu Arg Glu Thr
 145 150 155 160
 Leu Leu Gln Asp Phe Arg Val Val Ala Gln Gly Val Gly Ile Pro Glu
 165 170 175
 Asp Ser Ile Phe Thr Met Ala Asp Arg Gly Glu Cys Val Pro Gly Glu
 180 185 190
 Gln Glu Pro Glu Pro Ile Leu Ile Pro Arg Val Arg Arg Ala Val Leu
 195 200 205
 Pro Gln Glu Glu Gly Ser Gly Gly Gly Gln Leu Val Thr Glu Val
 210 215 220
 Thr Lys Lys Glu Asp Ser Cys Gln Leu Gly Tyr Ser Ala Gly Pro Cys
 225 230 235 240
 Met Gly Met Thr Ser Arg Tyr Phe Tyr Asn Gly Thr Ser Met Ala Cys
 245 250 255
 Glu Thr Phe Gln Tyr Gly Gly Cys Met Gly Asn Gly Asn Asn Phe Val
 260 265 270
 Thr Glu Lys Glu Cys Leu Gln Thr Cys Arg Thr Val Ala Ala Cys Asn
 275 280 285
 Leu Pro Ile Val Arg Gly Pro Cys Arg Ala Phe Ile Gln Leu Trp Ala
 290 295 300
 Phe Asp Ala Val Lys Gly Lys Cys Val Leu Phe Pro Tyr Gly Gly Cys
 305 310 315 320
 Gln Gly Asn Gly Asn Lys Phe Tyr Ser Glu Lys Glu Cys Arg Glu Tyr
 325 330 335
 Cys Gly Val Pro Gly Asp Gly Asp Glu Glu Leu Leu Arg Phe Ser Asn
 340 345 350 352
 *

<210> 923
 <211> 457
 <212> PRT
 <213> Homo sapiens

<400> 923
 Met Phe Leu Leu Leu Pro Phe Asp Ser Leu Ile Val Asn Leu Leu Gly
 1 5 10 15
 Ile Ser Leu Thr Val Leu Phe Thr Leu Leu Val Phe Ile Ile Val
 20 25 30
 Pro Ala Ile Phe Gly Val Ser Phe Gly Ile Arg Lys Leu Tyr Met Lys
 35 40 45
 Ser Leu Leu Lys Ile Phe Ala Trp Ala Thr Leu Arg Met Glu Arg Gly
 50 55 60
 Ala Lys Glu Lys Asn His Gln Leu Tyr Lys Pro Tyr Thr Asn Gly Ile
 65 70 75 80
 Ile Ala Lys Asp Pro Thr Ser Leu Glu Glu Ile Lys Glu Ile Arg
 85 90 95
 Arg Ser Gly Ser Ser Lys Ala Leu Asp Asn Thr Pro Glu Phe Glu Leu
 100 105 110
 Ser Asp Ile Phe Tyr Phe Cys Arg Lys Gly Met Glu Thr Ile Met Asp
 115 120 125
 Asp Glu Val Thr Lys Arg Phe Ser Ala Glu Glu Leu Glu Ser Trp Asn
 130 135 140
 Leu Leu Ser Arg Thr Asn Tyr Asn Phe Gln Tyr Ile Ser Leu Arg Leu
 145 150 155 160
 Thr Val Leu Trp Gly Leu Gly Val Leu Ile Arg Tyr Cys Phe Leu Leu
 165 170 175
 Pro Leu Arg Ile Ala Leu Ala Phe Thr Gly Ile Ser Leu Leu Val Val
 180 185 190
 Gly Thr Thr Val Val Gly Tyr Leu Pro Asn Gly Arg Phe Lys Glu Phe
 195 200 205
 Met Ser Lys His Val His Leu Met Cys Tyr Arg Ile Cys Val Arg Ala
 210 215 220
 Leu Thr Ala Ile Ile Thr Tyr His Asp Arg Glu Asn Arg Pro Arg Asn
 225 230 235 240
 Gly Gly Ile Cys Val Ala Asn His Thr Ser Pro Ile Asp Val Ile Ile
 245 250 255
 Leu Ala Ser Asp Gly Tyr Tyr Ala Met Val Gly Gln Val His Gly Gly
 260 265 270
 Leu Met Gly Val Ile Gln Arg Ala Met Val Lys Ala Cys Pro His Val
 275 280 285
 Trp Phe Glu Arg Ser Glu Val Lys Asp Arg His Leu Val Ala Lys Arg
 290 295 300
 Leu Thr Glu His Val Gln Asp Lys Ser Lys Leu Pro Ile Leu Ile Phe
 305 310 315 320
 Pro Glu Gly Thr Cys Ile Asn Asn Thr Ser Val Met Met Phe Lys Lys
 325 330 335
 Gly Ser Phe Glu Ile Gly Ala Thr Val Tyr Pro Val Ala Ile Lys Tyr
 340 345 350
 Asp Pro Gln Phe Gly Asp Ala Phe Trp Asn Ser Ser Lys Tyr Gly Met
 355 360 365
 Val Thr Tyr Leu Leu Arg Met Met Thr Ser Trp Ala Ile Val Cys Ser
 370 375 380
 Val Trp Tyr Leu Pro Pro Met Thr Arg Glu Ala Asp Glu Asp Ala Val
 385 390 395 400
 Gln Phe Ala Asn Arg Val Lys Ser Ala Ile Ala Arg Gln Gly Gly Leu
 405 410 415
 Val Asp Leu Leu Trp Asp Gly Gly Leu Lys Arg Glu Lys Val Lys Asp
 420 425 430
 Thr Phe Lys Glu Glu Gln Gln Lys Leu Tyr Ser Lys Met Ile Val Gly
 435 440 445
 Asn His Lys Asp Arg Ser Arg Ser *

450

455 456

<210> 924
 <211> 468
 <212> PRT
 <213> Homo sapiens

<400> 924
 Met Leu Leu Leu Leu Leu Leu Pro Leu Leu Trp Gly Arg Glu Arg Val
 1 5 10 15
 Glu Gly Gln Lys Ser Asn Arg Lys Asp Tyr Ser Leu Thr Met Gln Ser
 20 25 30
 Ser Val Thr Val Gln Glu Gly Met Cys Val His Val Arg Cys Ser Phe
 35 40 45
 Ser Tyr Pro Val Asp Ser Gln Thr Asp Ser Asp Pro Val His Gly Tyr
 50 55 60
 Trp Phe Arg Ala Gly Asn Asp Ile Ser Trp Lys Ala Pro Val Ala Thr
 65 70 75 80
 Asn Asn Pro Ala Trp Ala Val Gln Glu Glu Thr Arg Asp Arg Phe His
 85 90 95
 Leu Leu Gly Asp Pro Gln Thr Lys Asn Cys Thr Leu Ser Ile Arg Asp
 100 105 110
 Ala Arg Met Ser Asp Ala Gly Arg Tyr Phe Phe Arg Met Glu Lys Gly
 115 120 125
 Asn Ile Lys Trp Asn Tyr Lys Tyr Asp Gln Leu Ser Val Asn Val Thr
 130 135 140
 Ala Leu Thr His Arg Pro Asn Ile Leu Ile Pro Gly Thr Leu Glu Ser
 145 150 155 160
 Gly Cys Phe Gln Asn Leu Thr Cys Ser Val Pro Trp Ala Cys Glu Gln
 165 170 175
 Gly Thr Pro Pro Met Ile Ser Trp Met Gly Thr Ser Val Ser Pro Leu
 180 185 190
 His Pro Ser Thr Thr Arg Ser Ser Val Leu Thr Leu Ile Pro Gln Pro
 195 200 205
 Gln His His Gly Thr Ser Leu Thr Cys Gln Val Thr Leu Pro Gly Ala
 210 215 220
 Gly Val Thr Thr Asn Arg Thr Ile Gln Leu Asn Val Ser Tyr Pro Pro
 225 230 235 240
 Gln Asn Leu Thr Val Thr Val Phe Gln Gly Glu Gly Thr Ala Ser Thr
 245 250 255
 Ala Leu Gly Asn Ser Ser Ser Leu Ser Val Leu Glu Gly Gln Ser Leu
 260 265 270
 Arg Leu Val Cys Ala Val Asp Ser Asn Pro Pro Ala Arg Leu Ser Trp
 275 280 285
 Thr Trp Arg Ser Leu Thr Leu Tyr Pro Ser Gln Pro Ser Asn Pro Leu
 290 295 300
 Val Leu Glu Leu Gln Val His Leu Gly Asp Glu Gly Glu Phe Thr Cys
 305 310 315 320
 Arg Ala Gln Asn Ser Leu Gly Ser Gln His Val Ser Leu Asn Leu Ser
 325 330 335
 Leu Gln Gln Glu Tyr Thr Gly Lys Met Arg Pro Val Ser Gly Val Leu
 340 345 350
 Leu Gly Ala Val Gly Gly Ala Gly Ala Thr Ala Leu Val Phe Leu Ser
 355 360 365
 Phe Cys Val Ile Phe Ile Val Arg Ser Cys Arg Lys Lys Ser Ala
 370 375 380
 Arg Pro Ala Ala Asp Val Gly Asp Ile Gly Met Lys Asp Ala Asn Thr
 385 390 395 400
 Ile Arg Gly Ser Ala Ser Gln Gly Asn Leu Thr Glu Ser Trp Ala Asp
 405 410 415
 Asp Asn Pro Arg His His Gly Leu Ala Ala His Ser Ser Gly Glu Glu

[illegible]

```
<210> 925
<211> 468
<212> PRT
<213> Homo sapiens
```

<400> 925															
Met 1	Leu	Leu	Leu	Leu 5	Leu	Leu	Pro	Leu	Leu 10	Trp	Gly	Arg	Glu	Arg 15	Val
Glu	Gly	Gln	Lys 20	Ser	Asn	Arg	Lys	Asp 25	Tyr	Ser	Leu	Thr	Met 30	Gln	Ser
Ser	Val	Thr 35	Val	Gln	Glu	Gly	Met 40	Cys	Val	His	Val	Arg 45	Cys	Ser	Phe
Ser	Tyr 50	Pro	Val	Asp	Ser	Gln 55	Thr	Asp	Ser	Asp	Pro 60	Val	His	Gly	Tyr
Trp 65	Phe	Arg	Ala	Gly	Asn 70	Asp	Ile	Ser	Trp	Lys 75	Ala	Pro	Val	Ala	Thr 80
Asn	Asn	Pro	Ala	Trp 85	Ala	Val	Gln	Glu	Glu 90	Thr	Arg	Asp	Arg	Phe	His 95
Leu	Leu	Gly	Asp 100	Pro	Gln	Thr	Lys	Asn 105	Cys	Thr	Leu	Ser	Ile	Arg	Asp
Ala	Arg	Met	Ser 115	Asp	Ala	Gly	Arg	Tyr 120	Phe	Phe	Arg	Met 125	Glu	Lys	Gly
Asn	Ile 130	Lys	Trp	Asn	Tyr	Lys 135	Tyr	Asp	Gln	Leu	Ser	Val 140	Asn	Val	Thr
Ala 145	Leu	Thr	His	Arg	Pro 150	Asn	Ile	Leu	Ile	Pro 155	Gly	Thr	Leu	Glu	Ser 160
Gly	Cys	Phe	Gln	Asn 165	Leu	Thr	Cys	Ser	Val 170	Pro	Trp	Ala	Cys	Glu	Gln 175
Gly	Thr	Pro	Pro 180	Met	Ile	Ser	Trp	Met 185	Gly	Thr	Ser	Val	Ser	Pro	Leu
His	Pro	Ser 195	Thr	Thr	Arg	Ser	Ser 200	Val	Leu	Thr	Leu	Ile 205	Pro	Gln	Pro
Gln	His 210	His	Gly	Thr	Ser	Leu	Thr 215	Cys	Gln	Val	Thr	Leu 220	Pro	Gly	Ala
Gly 225	Val	Thr	Thr	Asn 230	Arg	Thr	Ile	Gln	Leu	Asn 235	Val	Ser	Tyr	Pro	Pro 240
Gln	Asn	Leu	Thr	Val 245	Thr	Val	Phe	Gln	Gly	Glu 250	Gly	Thr	Ala	Ser	Thr 255
Ala	Leu	Gly	Asn 260	Ser	Ser	Ser	Leu	Ser 265	Val	Leu	Glu	Gly	Gln	Ser	Leu
Arg	Leu	Val 275	Cys	Ala	Val	Asp	Ser	Asn 280	Pro	Pro	Ala	Arg 285	Leu	Ser	Trp
Thr	Trp 290	Arg	Ser	Leu	Thr	Leu	Tyr	Pro 295	Ser	Gln	Pro	Ser	Asn	Pro	Leu
Val 305	Leu	Glu	Leu	Gln	Val	His	Leu	Gly	Asp	Glu 315	Gly	Glu	Phe	Thr	Cys
Arg	Ala	Gln	Asn 325	Ser	Leu	Gly	Ser	Gln	His	Val	Ser	Leu	Asn	Leu	Ser
Leu	Gln	Gln	Glu 340	Tyr	Thr	Gly	Lys	Met	Arg	Pro	Val	Ser	Gly	Val	Leu
Leu	Gly	Ala	Val 355	Gly	Gly	Ala	Gly	Ala 360	Thr	Ala	Leu	Val	Phe	Leu	Ser
Phe	Cys	Val	Ile	Phe	Ile	Val	Val	Arg	Ser	Cys	Arg	Lys	Lys	Ser	Ala

```

      370              375              380
Arg Pro Ala Ala Asp Val Gly Asp Ile Gly Met Lys Asp Ala Asn Thr
385              390              395              400
Ile Arg Gly Ser Ala Ser Gln Gly Asn Leu Thr Glu Ser Trp Ala Asp
      405              410              415
Asp Asn Pro Arg His His Gly Leu Ala Ala His Ser Ser Gly Glu Glu
      420              425              430
Arg Glu Ile Gln Tyr Ala Pro Leu Ser Phe His Lys Gly Glu Pro Gln
      435              440              445
Asp Leu Ser Gly Gln Glu Ala Thr Asn Asn Glu Tyr Ser Glu Ile Lys
      450              455              460
Ile Pro Lys *
465      467

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<210> 926
<211> 79
<212> PRT
<213> Homo sapiens

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```

<400> 926
Met Arg Met Leu Leu Thr Leu Gly Gly Leu Pro Gln Met Cys Leu Lys
 1              5              10              15
Phe His Gly Thr Pro Leu Thr Cys Pro Gln Gly Val Pro Cys Pro His
      20              25              30
Asp Ser Gln Arg Ile Gln Gly Ile Pro Lys Ala Pro Thr Gly Arg Glu
      35              40              45
Phe Leu Ala Gly Pro Gln Arg Val Pro Phe Pro Trp Leu Arg Ser Pro
      50              55              60
Ala His Val Arg Gly Gln Pro Ser Pro Gly Gly Pro Thr Pro Gly
      65              70              75              79

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<210> 927
<211> 85
<212> PRT
<213> Homo sapiens

```

```

<400> 927
Met Leu Cys Trp Lys Thr Thr Ser Gly Arg Leu Lys Asp Ile Leu Ala
 1              5              10              15
Ile Leu Leu Thr Asp Val Leu Leu Leu Leu Gln Glu Lys Asp Gln Lys
      20              25              30
Tyr Val Phe Ala Ser Val Asp Ser Lys Pro Pro Val Ile Ser Leu Gln
      35              40              45
Lys Leu Ile Val Arg Glu Val Ala Asn Glu Glu Lys Ala Met Phe Met
      50              55              60
Ile Ser Ala Ser Leu Gln Gly Pro Glu Cys Ile Ala Ala Ala Arg Glu
      65              70              75              80
Asp Pro Ser Lys Gln
      85

```

```

<210> 928
<211> 69
<212> PRT
<213> Homo sapiens

```


<400> 928
 Met Gln Gln Pro Glu Val Lys Thr Trp Gly Gly Val Val Thr Ala Ala
 1 5 10 15
 Met Val Ile Ala Leu Ala Val Tyr Met Gly Thr Gly Ile Cys Gly Phe
 20 25 30
 Leu Thr Phe Gly Ala Ala Val Asp Pro Asp Val Leu Leu Ser Tyr Pro
 35 40 45
 Ser Glu Asp Met Ala Val Ala Val Ala Arg Ala Leu Ile Ile Leu Ser
 50 55 60
 Val Leu Thr Cys Ile
 65 69

<210> 929
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 929
 Met Gln Met Trp Trp Leu Gly Ala Gln Ser Ala Gly Arg Cys Trp Leu
 1 5 10 15
 Arg Ala Arg Thr Ala Thr Ser Trp Trp Thr Cys Ser Trp Lys Arg Leu
 20 25 30
 Val Arg Gly Cys Cys Gly Arg Lys Thr Ser Ser Leu Val Trp *
 35 40 45 46

<210> 930
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 930
 Met Arg Asn Leu Ser Gln Arg Val Thr Phe Arg Met Val Phe Ala Ala
 1 5 10 15
 Cys Ser Arg Tyr Ser Arg Asn Met Gln Pro Cys Cys Val Leu Ile Phe
 20 25 30
 Leu Lys Ile Leu Leu Cys Leu Phe Tyr Gln Ser Val Gly Gln Phe Ala
 35 40 45
 Asn *
 49

<210> 931
 <211> 96
 <212> PRT
 <213> Homo sapiens

<400> 931
 Met Ser Leu Cys Leu Ala Phe Leu Leu His Trp Gly His Phe Arg Thr
 1 5 10 15
 Cys Pro Leu Ser His Val Glu Met His Leu Tyr Pro Lys Arg Cys Pro
 20 25 30
 Gln Arg Asn Ala Glu Ser Arg Trp Ser Pro Ala Leu Val His Cys Ser
 35 40 45
 Arg His Ile Val Gln Val Ser Pro Ser Ser Ser Ser Ile Glu Ala Glu
 50 55 60
 Gly Ser Arg Gly Ser Asp Phe Trp Gly Asp Gly Cys Leu Gly Arg Val

65					70					75				80	
Leu	Pro	Pro	Ser	Ile	His	Val	Thr	Ser	Cys	Ser	Ala	Glu	Thr	Pro	Ala
				85					90					95	96

<210> 932
 <211> 189
 <212> PRT
 <213> Homo sapiens

<400> 932

Met	Val	Pro	Gly	Ala	Ala	Gly	Trp	Cys	Cys	Leu	Val	Leu	Trp	Leu	Pro
1				5					10					15	
Ala	Cys	Val	Ala	Ala	His	Gly	Phe	Arg	Ile	His	Asp	Tyr	Leu	Tyr	Phe
			20					25					30		
Gln	Val	Leu	Ser	Pro	Gly	Asp	Ile	Arg	Tyr	Ile	Phe	Thr	Ala	Thr	Pro
		35					40					45			
Ala	Lys	Asp	Phe	Gly	Gly	Ile	Phe	His	Thr	Arg	Tyr	Glu	Gln	Ile	His
	50					55					60				
Leu	Val	Pro	Ala	Glu	Pro	Pro	Glu	Ala	Cys	Gly	Glu	Leu	Ser	Asn	Gly
	65				70				75					80	
Phe	Phe	Ile	Gln	Asp	Gln	Ile	Ala	Leu	Val	Glu	Arg	Gly	Gly	Cys	Ser
			85					90						95	
Phe	Leu	Ser	Lys	Thr	Arg	Val	Val	Gln	Glu	His	Gly	Gly	Arg	Ala	Val
			100					105					110		
Ile	Ile	Ser	Asp	Asn	Ala	Val	Asp	Asn	Asp	Ser	Phe	Tyr	Val	Glu	Met
		115					120					125			
Ile	Gln	Asp	Ser	Thr	Gln	Arg	Thr	Ala	Asp	Ile	Pro	Ala	Leu	Phe	Leu
	130					135					140				
Leu	Gly	Arg	Asp	Gly	Tyr	Met	Ile	Arg	Arg	Ser	Leu	Glu	Gln	His	Gly
	145				150					155				160	
Leu	Pro	Trp	Ala	Ile	Ile	Ser	Ile	Pro	Val	Asn	Val	Thr	Ser	Ile	Pro
			165					170						175	
Thr	Phe	Glu	Leu	Leu	Gln	Pro	Pro	Trp	Thr	Phe	Trp	*			
			180					185			188				

<210> 933
 <211> 63
 <212> PRT
 <213> Homo sapiens

<400> 933

Met	Ala	Cys	Cys	Leu	Pro	Cys	Arg	Ala	Phe	Pro	Ala	Tyr	Pro	Thr	Gly
1				5					10					15	
Val	Trp	Pro	Thr	Thr	Trp	Leu	Trp	Cys	Trp	Ala	Val	Leu	Pro	Ile	Pro
			20					25					30		
Trp	Pro	Ala	Ser	Trp	Pro	Trp	Val	Cys	Cys	Ala	Gly	Pro	Trp	Gln	Gly
		35					40				45				
Trp	Ala	Ala	Ser	Leu	Cys	Trp	Ala	Cys	Ser	Val	Gly	Ala	Thr	*	
	50					55					60		62		

<210> 934
 <211> 100
 <212> PRT
 <213> Homo sapiens

<400> 934

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Met Asp Trp Asn Leu Gln Phe Ser Leu Leu Leu Trp Ala Thr Ala Asp
 1           5           10           15
Ile Ser Asp Gln Leu Phe Gln Pro Pro Gln Lys Phe Ser Trp Asp Pro
           20           25           30
Leu Glu Ser Ala Leu Cys Leu Tyr Ser Ser Gly Ser Ala Lys Asp Leu
           35           40           45
Lys Gly Glu Met Gln Ser Phe Trp Tyr Pro Ala Arg Lys Ser Pro Pro
           50           55           60
Leu His Leu Pro Ala Leu Gln Leu Phe Tyr Phe Gly Glu Leu Pro Cys
           65           70           75           80
Lys Phe Leu Pro Ala Leu Val Val Pro Gly Ser Thr Leu Pro Pro Ser
           85           90           95
Arg Pro Leu *
           99

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<210> 935

<211> 86

<212> PRT

<213> Homo sapiens

<400> 935

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Met Lys Ile Thr Gly Gly Leu Leu Leu Leu Cys Thr Val Val Tyr Phe
 1           5           10           15
Cys Ser Ser Ser Glu Ala Ala Ser Leu Ser Pro Lys Lys Val Asp Cys
           20           25           30
Ser Ile Tyr Lys Lys Tyr Pro Val Val Ala Ile Pro Cys Pro Ile Thr
           35           40           45
Tyr Leu Pro Val Cys Gly Ser Asp Tyr Ile Thr Tyr Gly Asn Glu Cys
           50           55           60
His Leu Cys Thr Glu Ser Leu Lys Ser Asn Gly Arg Val Gln Phe Leu
           65           70           75           80
His Asp Gly Ser Cys *
           85

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<210> 936

<211> 344

<212> PRT

<213> Homo sapiens

<400> 936

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Met Trp Ala Ala Ala Gly Gly Leu Trp Arg Ser Arg Ala Gly Leu Arg
 1           5           10           15
Ala Leu Phe Arg Ser Arg Asp Ala Ala Leu Phe Pro Gly Cys Glu Arg
           20           25           30
Gly Leu His Cys Ser Ala Val Ser Cys Lys Asn Trp Leu Lys Lys Phe
           35           40           45
Ala Ser Lys Thr Lys Lys Lys Val Trp Tyr Glu Ser Pro Ser Leu Gly
           50           55           60
Ser His Ser Thr Tyr Lys Pro Ser Lys Leu Glu Phe Leu Met Arg Ser
           65           70           75           80
Thr Ser Lys Lys Thr Arg Lys Glu Asp His Ala Arg Leu Arg Ala Leu
           85           90           95
Asn Gly Leu Leu Tyr Lys Ala Leu Thr Asp Leu Leu Cys Thr Pro Glu
           100           105           110
Val Ser Gln Glu Leu Tyr Asp Leu Asn Val Glu Leu Ser Lys Val Ser

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      115              120              125
Leu Thr Pro Asp Phe Ser Ala Cys Arg Ala Tyr Trp Lys Thr Thr Leu
      130              135              140
Ser Ala Glu Gln Asn Ala His Met Glu Ala Val Leu Gln Arg Ser Ala
145      150      155      160
Ala His Met Arg His Leu Leu Met Ser Gln Gln Thr Leu Arg Asn Val
      165      170      175
Pro Pro Ile Val Phe Val Gln Asp Lys Gly Asn Ala Ala Leu Ala Glu
      180      185      190
Leu Asp Gln Leu Leu Ala Val Ala Asp Phe Gly Pro Arg Asp Glu Arg
      195      200      205
Asp Asn Phe Val Gln Asn Asp Phe Arg Asp Pro Asp Ala Pro Gln Pro
      210      215      220
Cys Gly Thr Thr Glu Pro Thr Thr Ser Ser Ser Leu Cys Gly Ile Asp
225      230      235      240
His Glu Ala Leu Asn Lys Gln Ile Met Glu Tyr Lys Arg Arg Lys Asp
      245      250      255
Lys Gly Leu Gly Gly Leu Val Trp Gln Gly Gln Val Ala Glu Leu Thr
      260      265      270
Thr Gln Met Gln Lys Gly Arg Lys Arg Ala Lys Pro Arg Leu Glu Gln
      275      280      285
Asp Ser Ser Leu Lys Ser Tyr Leu Ser Gly Glu Glu Val Glu Asp Asp
290      295      300
Leu Asp Leu Val Gly Ala Pro Glu Tyr Glu Cys Tyr Ala Pro Asp Thr
305      310      315      320
Glu Glu Leu Glu Ala Glu Arg Gly Gly Gly Arg Thr Glu Asp Gly His
      325      330      335
Ser Cys Gly Ala Ser Arg Glu *
      340      343

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<210> 937
 <211> 58
 <212> PRT
 <213> Homo sapiens

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      <400> 937
Met Thr Ala Gln His His Ser Ile Ala Val Leu Leu Leu Asn Leu Glu
  1              5              10              15
Val Thr Cys Glu Cys Met Glu Tyr Asn Lys Val Phe Tyr Ser Gly Ser
      20      25      30
Phe Ala Ser Thr Ser Phe Leu Ile Gly Tyr Cys Ser Ser Ser Ser Gly
      35      40      45
Phe Tyr Phe Val Gln Pro Ser Arg Pro *
      50      55      57

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<210> 938
 <211> 77
 <212> PRT
 <213> Homo sapiens

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      <400> 938
Met Leu Ala His Leu Ser Phe Glu Arg Ser Leu Ile Leu His Leu Ile
  1              5              10              15
Phe Ser Gly Ile Ala Val Ser Ile Lys Ala Leu Thr Lys Thr Trp Met
      20      25      30
Pro Pro Glu Met Gly Ser Ser Pro Val Tyr Lys Ala Phe Ser Leu Leu
      35      40      45
Gln Cys Arg Leu Ser Ala Gln Lys Trp Gly Ser Cys His Ser Gln Asn

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50 55 60
 Thr Leu His Trp Pro Val Trp Gly Pro Gln Thr Thr Leu
 65 70 75 77

<210> 939
 <211> 104
 <212> PRT
 <213> Homo sapiens

<400> 939
 Met Ala Leu Leu His Ile Cys Val Gly His Pro Leu Leu Ser Phe Pro
 1 5 10 15
 Lys Ala Gly Asp Phe Ser Phe Ser Ser Gln Asp Asp Pro Ser Glu Leu
 20 25 30
 Thr Ala Gly Ala Lys Asp Lys Glu Phe Ser Cys Leu Leu Val Ile Cys
 35 40 45
 Leu Gln Pro Ala Pro Ser Thr Arg Ser Leu Phe Ser Trp Gln Leu Phe
 50 55 60
 Leu Leu Ser Phe Ser Leu Val Ser Phe Thr Leu Ile Tyr Arg Gly Glu
 65 70 75 80
 Phe Lys Lys Ser Gly Glu Ala Lys Asp Tyr Leu Thr Gln Val Gln Gly
 85 90 95
 Pro Ile Asp Cys Gly Lys Leu Leu
 100 104

<210> 940
 <211> 92
 <212> PRT
 <213> Homo sapiens

<400> 940
 Met Phe Arg Ser Asn Pro Gly Phe Phe Phe Phe Cys Cys Cys Lys Ser
 1 5 10 15
 Cys Ile Leu Ala Ile Ser Leu Gly Glu Ile Pro Arg Asn Glu Phe Thr
 20 25 30
 Glu Asn Met Ser Leu Arg Glu Ser Glu Asp Leu Lys Pro Asp Leu Ser
 35 40 45
 Ala Phe Lys Ser Ser Ala Leu Tyr Thr Asp Val Ser Ser Pro Val Phe
 50 55 60
 Phe Thr Tyr Gln Asn Ser Arg Thr Leu Pro Glu Lys Pro Gly Arg Tyr
 65 70 75 80
 Cys Ser Thr Pro Val Ser Cys Phe Ser Pro Gly *
 85 90 91

<210> 941
 <211> 79
 <212> PRT
 <213> Homo sapiens

<400> 941
 Met Cys Arg Leu Tyr Ser Cys Ala Arg Met Pro Leu Phe Ser Thr Val
 1 5 10 15
 Leu Phe Ser Asn Val Tyr Ile Asn Asp Phe Leu Leu Gln Lys Pro Glu
 20 25 30
 Asn Thr Thr Ser Gln Pro Leu Ser Asn Gln Arg Val Val Glu Val Ala

35 40 45
 Ile Pro His Val Gly Lys Phe Met Ile Glu Ser Lys Glu Gly Tyr
 50 55 60
 Asp Asp Glu Val Pro Phe Thr Ala Leu Cys Thr Ile Ala Thr *
 65 70 75 78

<210> 942
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 942
 Met Gly Ile Gln Trp Thr Cys Glu Trp Pro Ser Ser Leu Ser Pro Gly
 1 5 10 15
 Trp Lys Phe Ile Ala Cys Leu Trp Phe Ser Met Trp Gly Ser Arg Pro
 20 25 30
 Pro Leu Ser Gln Ala Met Ser His Lys Gln Trp Pro Met Leu Cys Ser
 35 40 45
 Ser Ile Ser Asn Pro Glu Ala Ser Gly Thr Glu Leu Phe Thr Tyr His
 50 55 60
 Phe His Met Met Gly Tyr Ile Glu Arg Phe Trp Pro Thr Glu Glu Leu
 65 70 75 80
 Ala Gln Arg Cys Ser Leu His Lys Glu Leu Pro Cys Thr Val Phe Thr
 85 90 95
 Glu Lys His Cys Ser Cys Thr Phe Leu Met Val Phe Gly Val Cys Thr
 100 105 110 112
 *

<210> 943
 <211> 201
 <212> PRT
 <213> Homo sapiens

<400> 943
 Met Gln Gly Met Lys Thr Gln Leu Ile Gln Leu Ser Thr Leu Leu Arg
 1 5 10 15
 Leu Leu Asp Ser Gly Phe Cys Ser Tyr Leu Glu Ser Gln Asp Ser Gly
 20 25 30
 Tyr Leu Tyr Phe Cys Phe Arg Trp Leu Leu Ile Arg Phe Lys Arg Glu
 35 40 45
 Phe Ser Phe Leu Asp Ile Leu Arg Leu Trp Glu Val Met Trp Thr Glu
 50 55 60
 Leu Pro Cys Thr Asn Phe His Leu Leu Leu Cys Cys Ala Ile Leu Glu
 65 70 75 80
 Ser Glu Lys Gln Gln Ile Met Glu Lys His Tyr Gly Phe Asn Glu Ile
 85 90 95
 Leu Lys His Ile Asn Glu Leu Ser Met Lys Ile Asp Val Glu Asp Ile
 100 105 110
 Leu Cys Lys Ala Glu Ala Ile Ser Leu Gln Met Val Lys Cys Lys Glu
 115 120 125
 Leu Pro Gln Ala Val Cys Glu Ile Leu Gly Leu Gln Gly Ser Glu Val
 130 135 140
 Thr Thr Pro Asp Ser Asp Val Gly Glu Asp Glu Asn Val Val Met Thr
 145 150 155 160
 Pro Cys Pro Thr Ser Ala Phe Gln Ser Asn Ala Leu Pro Thr Leu Ser
 165 170 175
 Ala Ser Gly Ala Arg Asn Asp Ser Pro Thr Gln Ile Pro Val Ser Ser

180 185 190
 Asp Val Cys Arg Leu Thr Pro Ala *
 195 200

<210> 944
 <211> 99
 <212> PRT
 <213> Homo sapiens

<400> 944
 Met Gly Ala Ser Leu Ala Leu Gly Phe Thr Glu Val Val Leu Val Leu
 1 5 10 15
 Gly Phe Thr Val Lys Leu Gly Ala His Leu Thr Leu Leu Pro Pro Leu
 20 25 30
 Gly Gly His Leu Ser Pro Tyr Cys Ala Ala Gln Ala Trp Glu Gly Val
 35 40 45
 Lys Gln Leu Met Cys Asn Cys Ser Ser Tyr Pro Leu Gln Cys Ile Ile
 50 55 60
 Cys Cys Ile Tyr Ala Thr Pro Gly Cys Tyr Asn Leu Ser Phe Gly Ile
 65 70 75 80
 Leu Ser Ser Cys Glu Gly Ile Phe Val Tyr Glu Trp Leu Phe Glu Met
 85 90 95
 Leu Leu *
 98

PATENT COOPERATION TREATY

PCT

DECLARATION OF NON-ESTABLISHMENT OF INTERNATIONAL SEARCH REPORT

(PCT Article 17(2)(a), Rules 13ter and 39)

Applicant's or agent's file reference 21272-017	IMPORTANT DECLARATION	Date of filing (day/month/year) 06 JUN 2001
International application No. PCT/US01/02623	International filing date (day/month/year) 25 JANUARY 2001	(Earliest) Priority Date (day/month/year) 25 JANUARY 2000
International Patent Classification (IPC) or both national classification and IPC IPC(7): C12P 19/34 and US Cl.: 435/91.2		
Applicant HYSEQ, INC.		

This International Searching Authority hereby declares, according to Article 17(2)(a), that **no international search report will be established on the international application for the reasons indicated below.**

1. ☐ The subject matter of the international application relates to:
 - a. ☐ scientific theories.
 - b. ☐ mathematical theories.
 - c. ☐ plant varieties.
 - d. ☐ animal varieties.
 - e. ☐ essentially biological processes for the production of plants and animals, other than microbiological processes and the products of such processes.
 - f. ☐ schemes, rules or methods of doing business.
 - g. ☐ schemes, rules or methods of performing purely mental acts.
 - h. ☐ schemes, rules or methods of playing games.
 - i. ☐ methods for treatment of the human body by surgery or therapy.
 - j. ☐ methods for treatment of the animal body by surgery or therapy.
 - k. ☐ diagnostic methods practiced on the human or animal body.
 - l. ☐ mere presentations of information.
 - m. ☐ computer programs for which this International Searching Authority is not equipped to search prior art.
2. ☐ The failure of the following parts of the international application to comply with prescribed requirements prevents a meaningful search from being carried out:

☐ the description
☐ the claims
☐ the drawings
3. ☒ The failure of the nucleotide and/or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions prevents a meaningful search from being carried out.

☐ the written form has not been furnished or does not comply with the standard.
☒ the computer readable form has not been furnished or does not comply with the standard.
4. Further comments:

Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703) 305-3230	Authorized officer <div style="text-align: right;"> TERRY J. DEY PARALEGAL SPECIALIST TECHNOLOGY CENTER 1600 </div> JEFFREY S. LUNDGREN Telephone No. (703) 305-3230
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